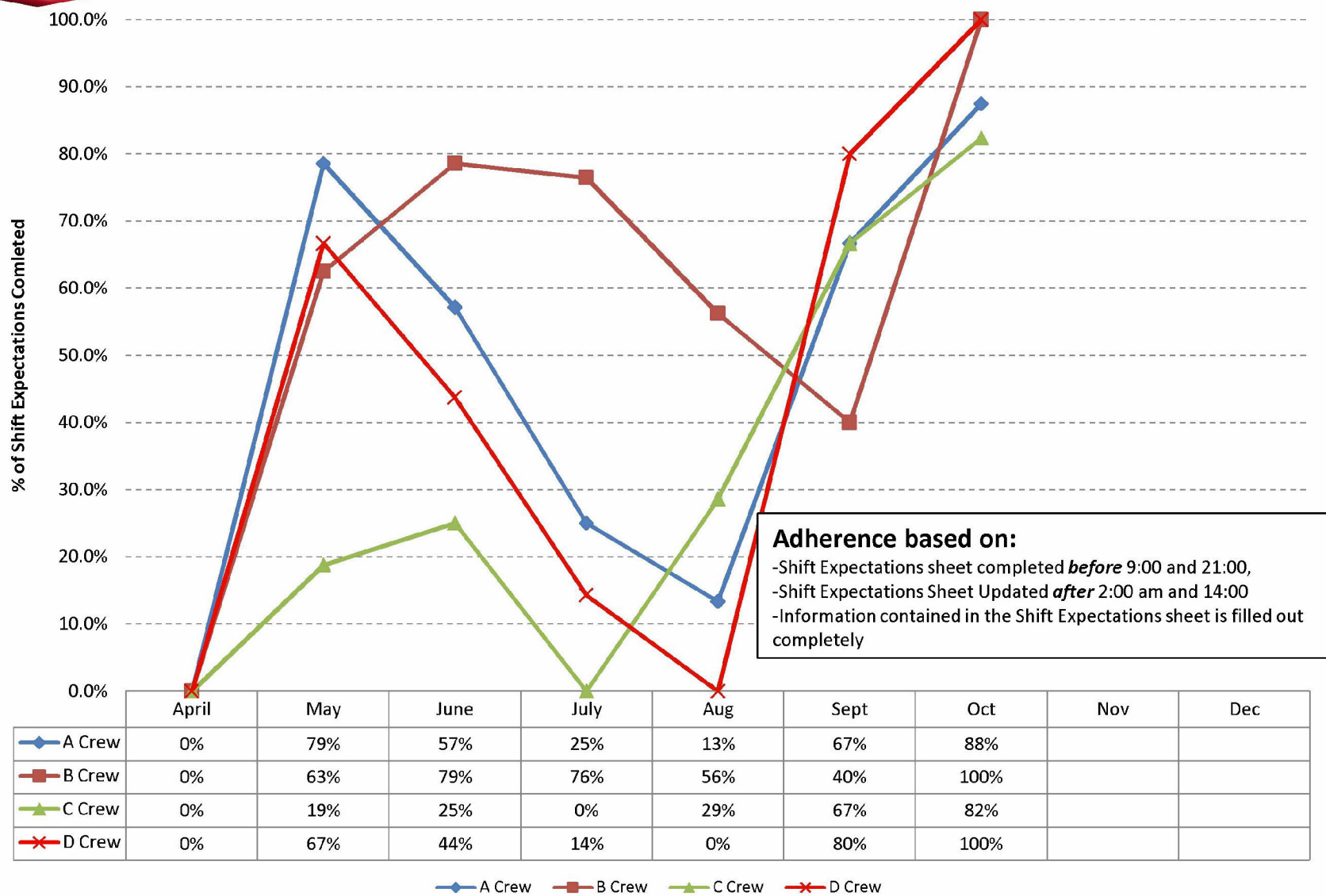




Crew Management: Hydro

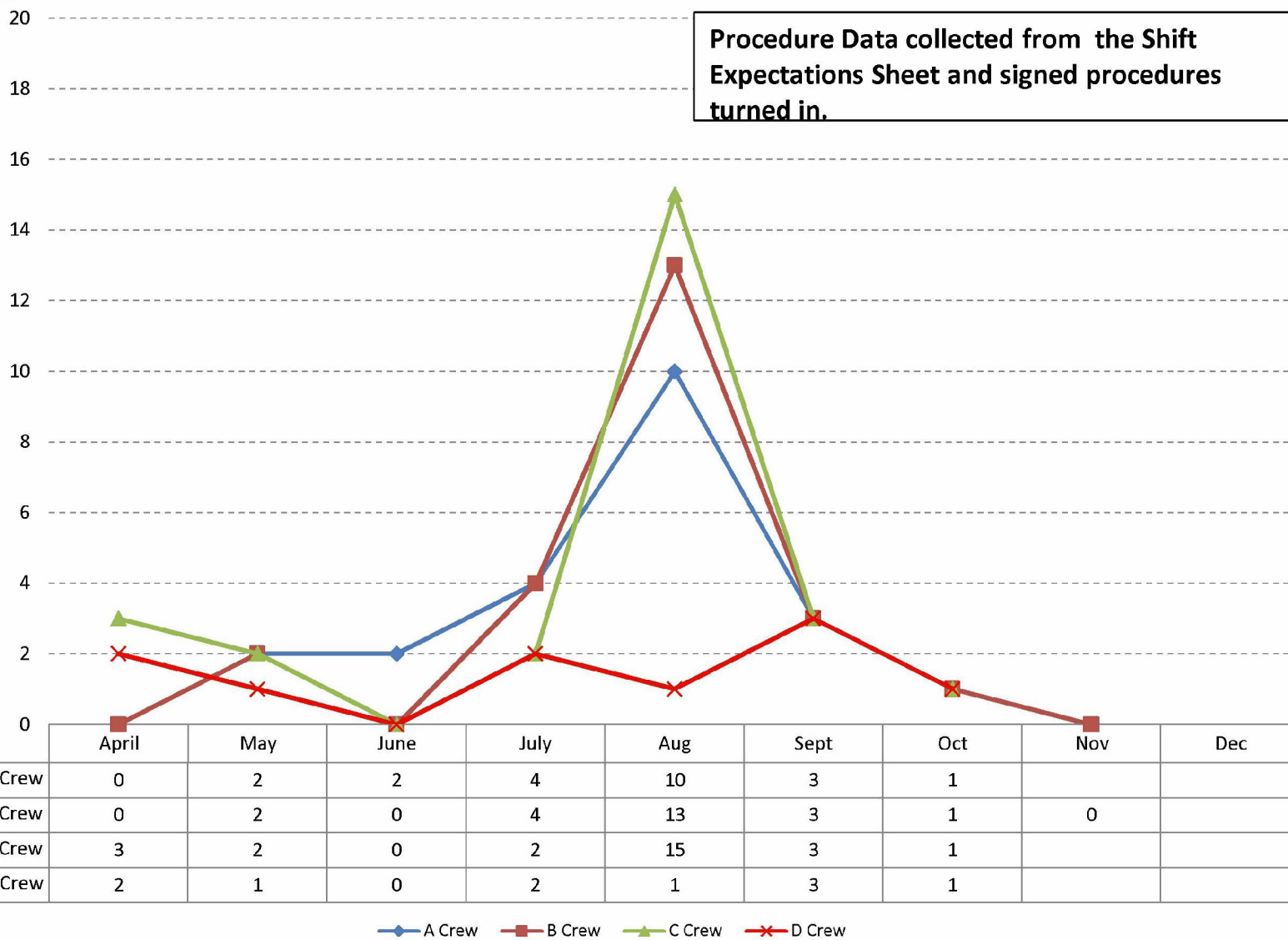




Procedure Usage: Hydro

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

Number of Procedures Used

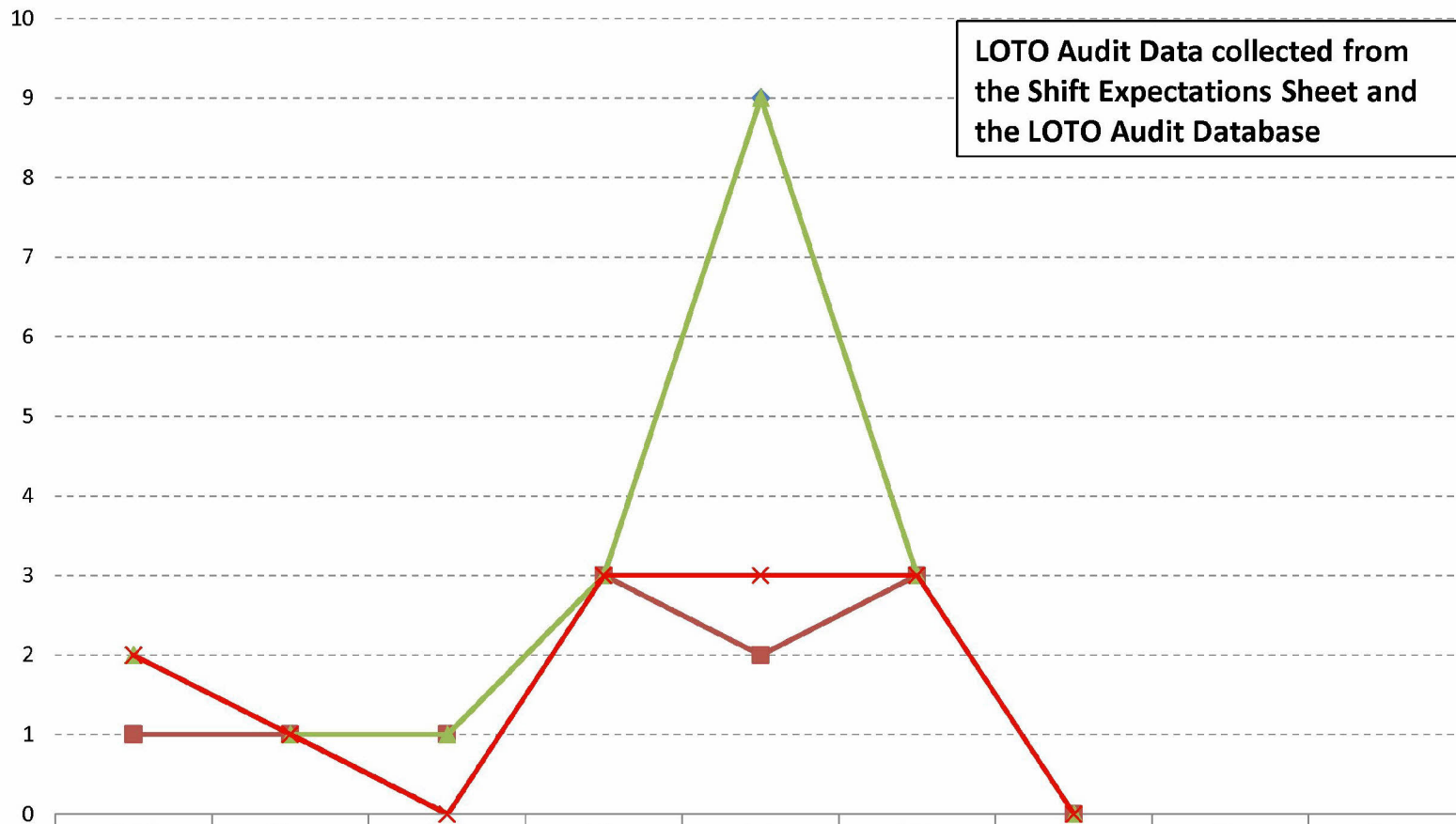




LOTO Audits: Hydro

LOTO Audit Data collected from
the Shift Expectations Sheet and
the LOTO Audit Database

Number of LOTO Audits Completed



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	1	1	1	3	9	3	0		
B Crew	1	1	1	3	2	3	0		
C Crew	2	1	1	3	9	3	0		
D Crew	2	1	0	3	3	3	0		

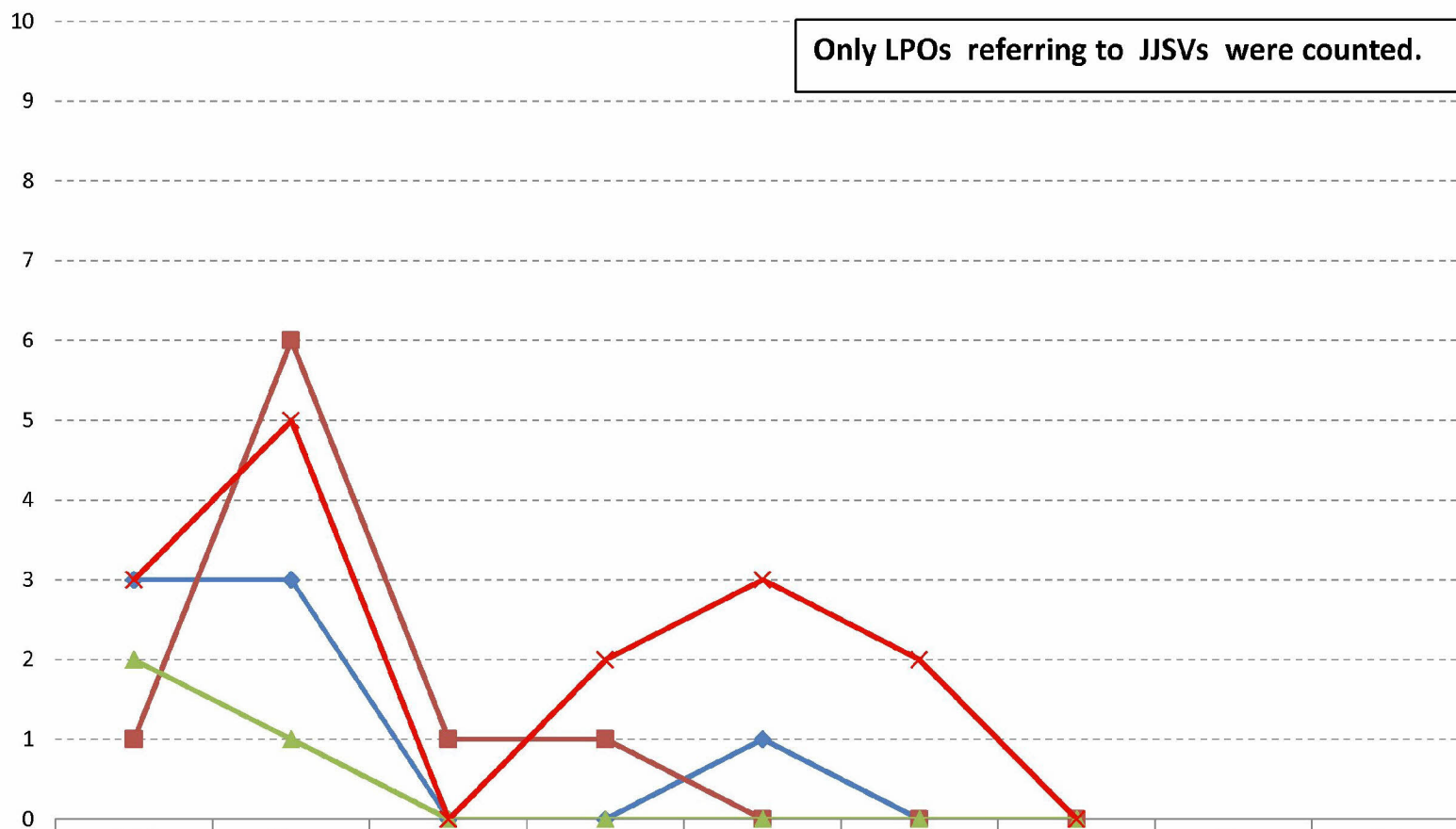
A Crew B Crew C Crew D Crew



JJSV LPOs Completed: Hydro

Only LPOs referring to JJSVs were counted.

Number of LOTO Audits Completed



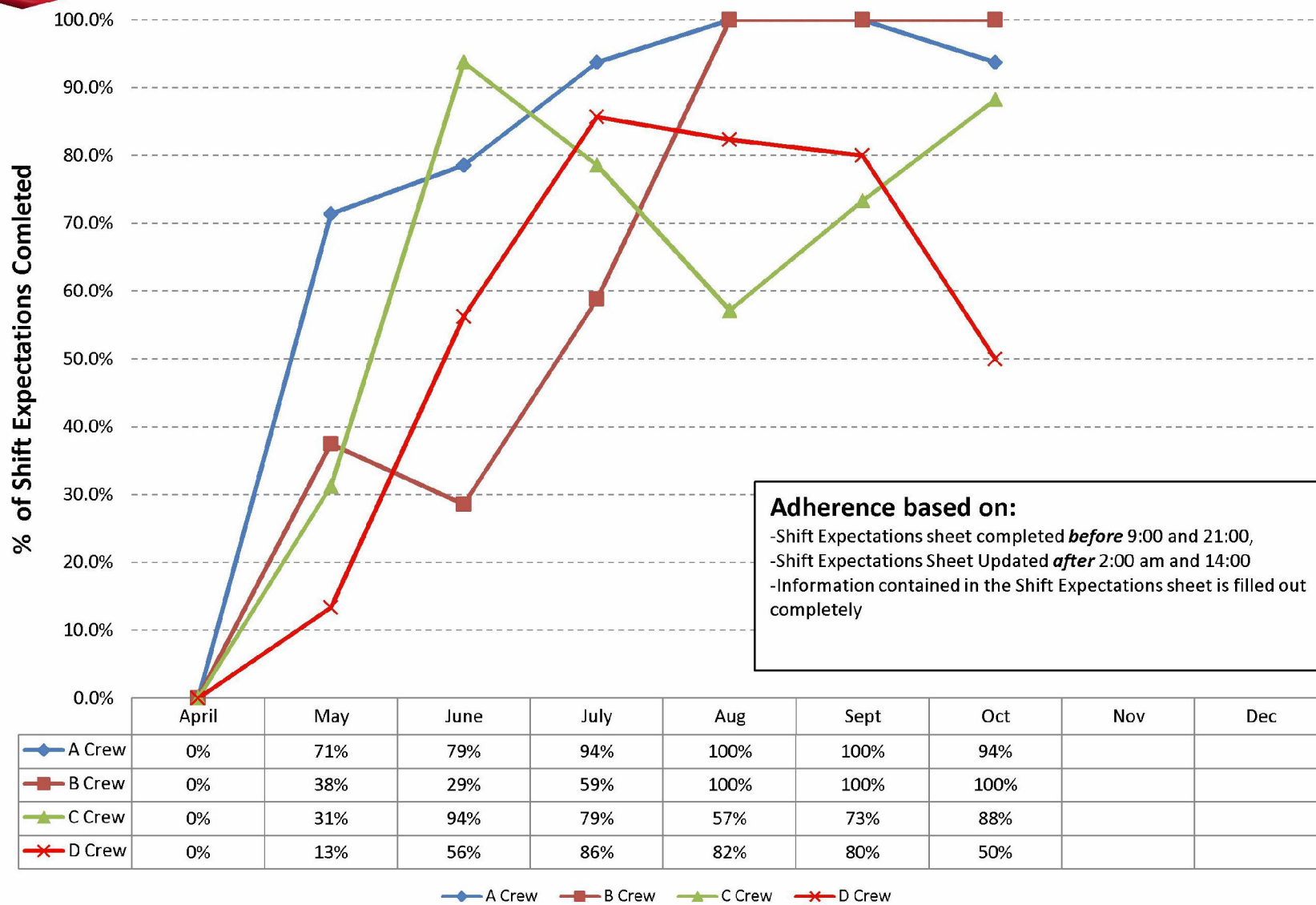
	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	3	3	0	0	1	0	0		
B Crew	1	6	1	1	0	0	0		
C Crew	2	1	0	0	0	0	0		
D Crew	3	5	0	2	3	2	0		

A Crew B Crew C Crew D Crew

**Data shows how often JJSVs are discussed
during the Start of Shift Meetings**



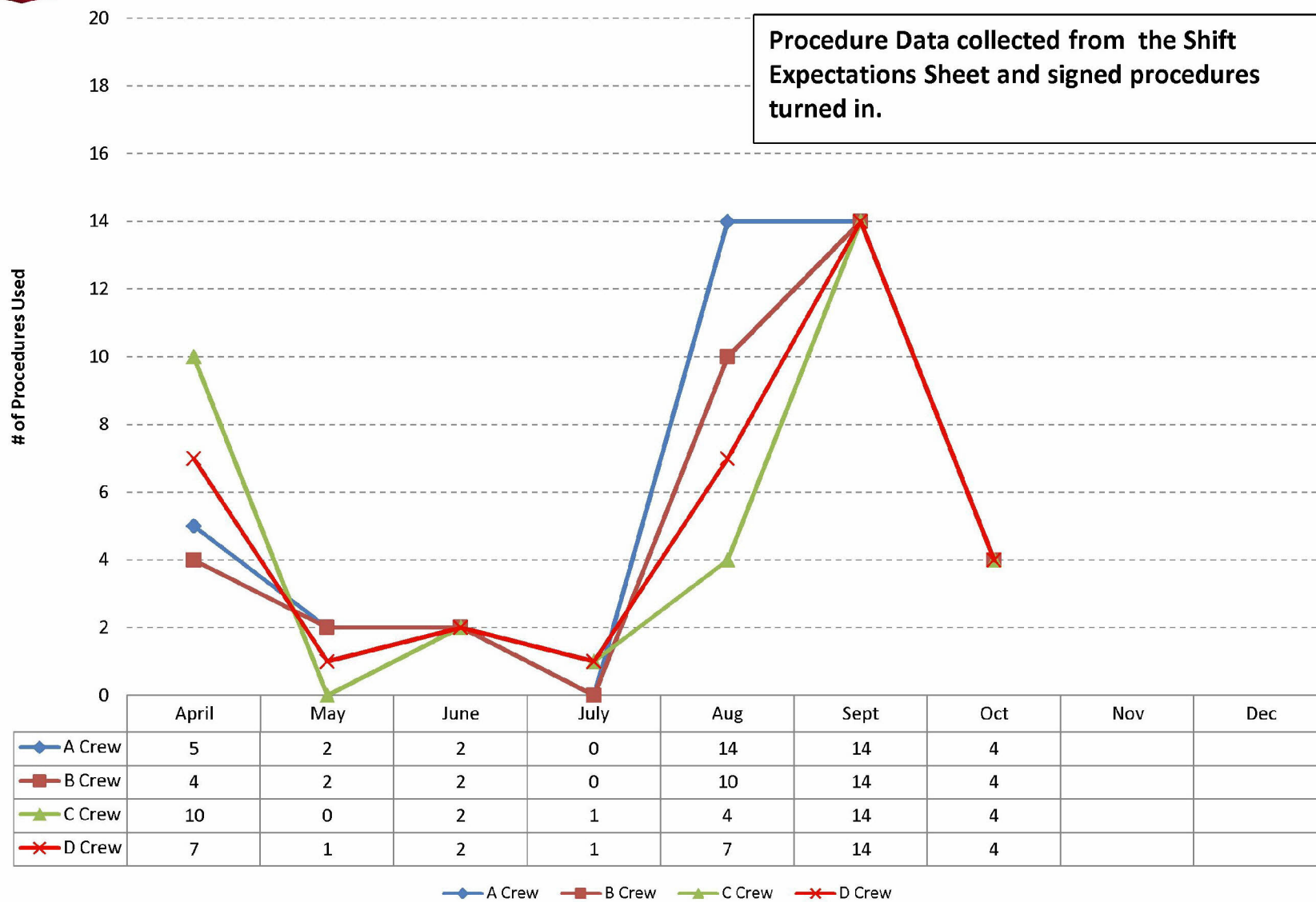
Crew Management: Cracking





Procedures Used: Cracking

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

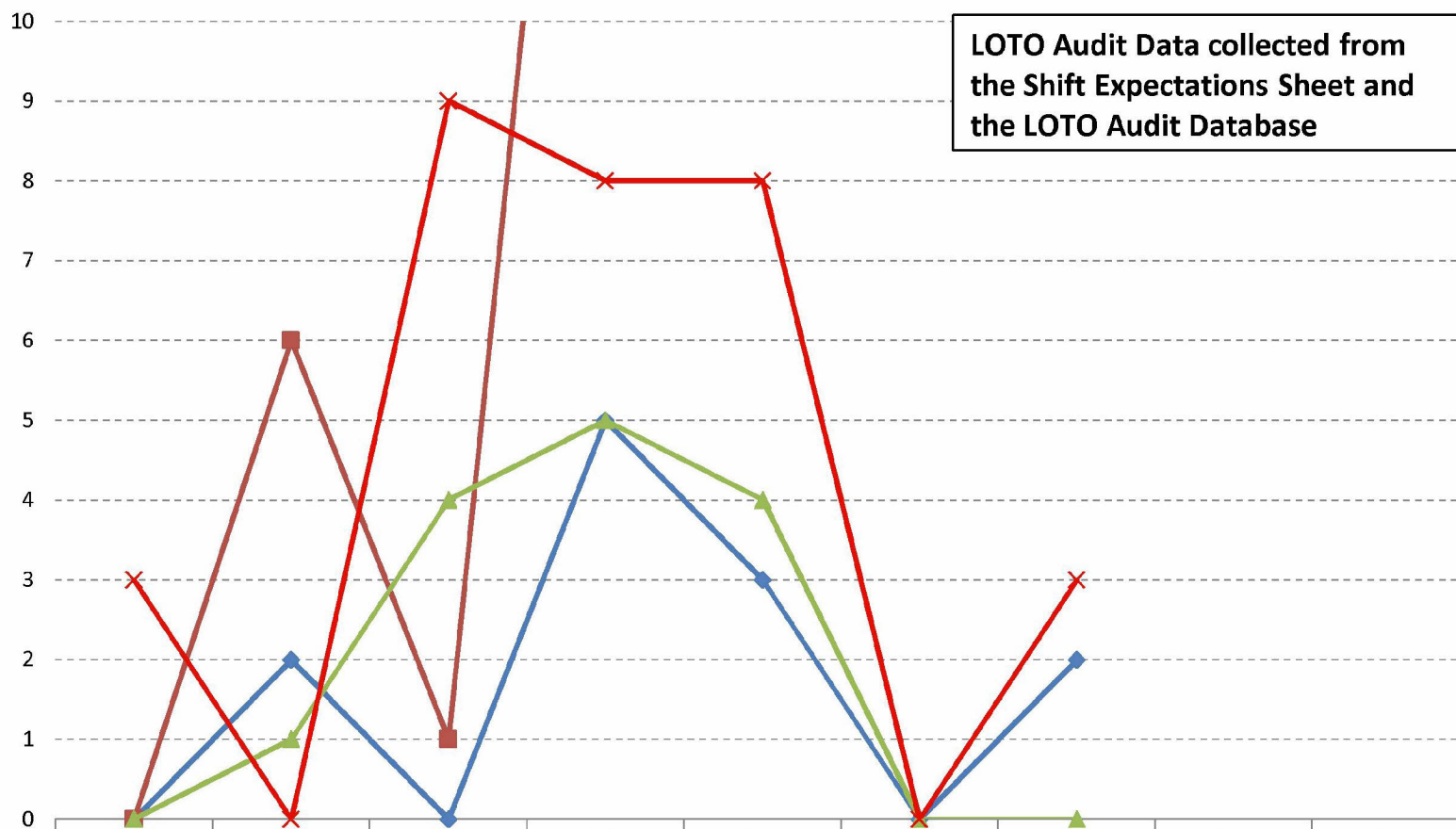




LOTO Audits: Cracking

LOTO Audit Data collected from the Shift Expectations Sheet and the LOTO Audit Database

Of LOTO Audits Completed



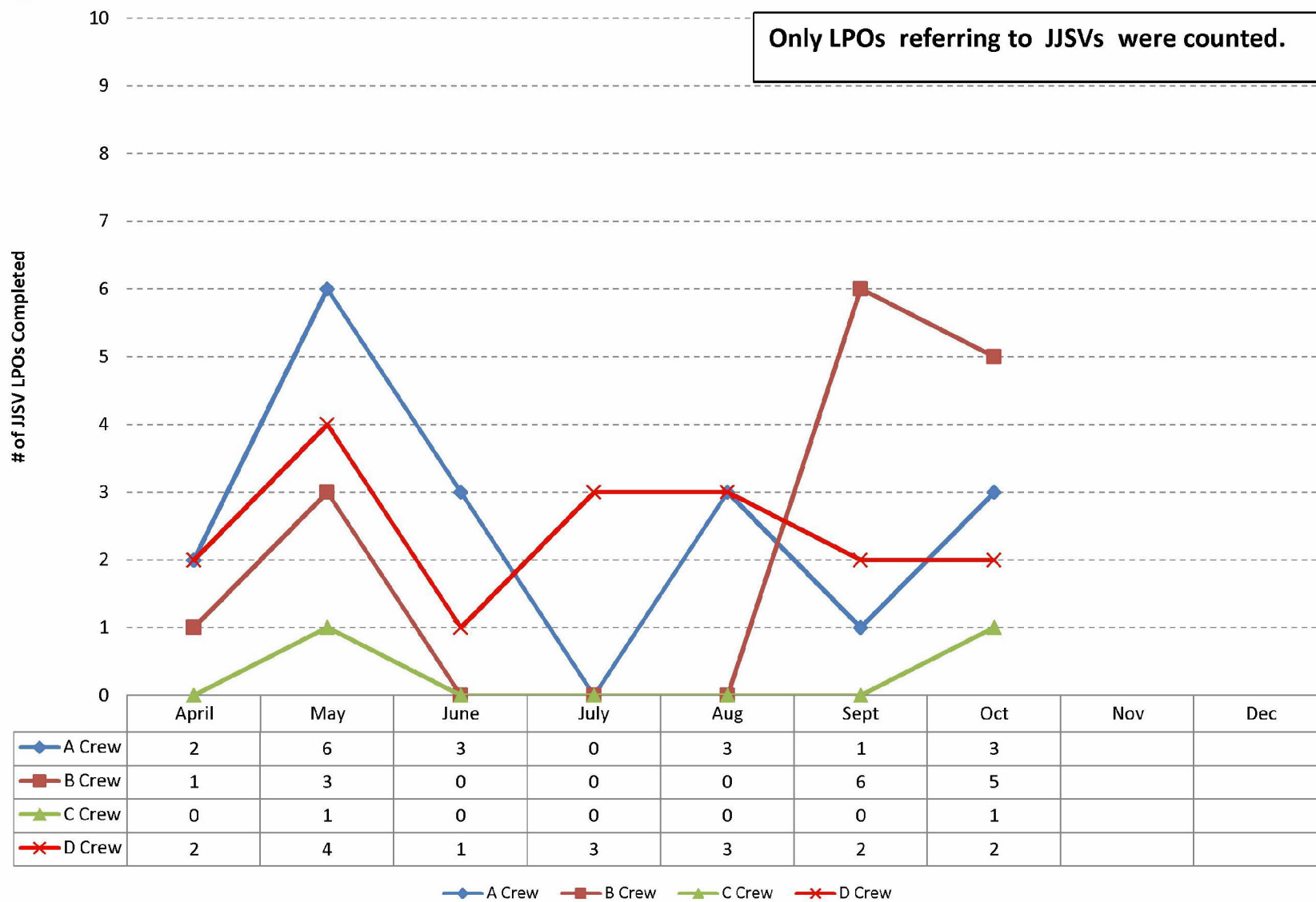
	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	0	2	0	5	3	0	2		
B Crew	0	6	1	20	12	11	12		
C Crew	0	1	4	5	4	0	0		
D Crew	3	0	9	8	8	0	3		

—◆— A Crew —■— B Crew —▲— C Crew —×— D Crew



JJSV/LOTO LPOs Completed: Cracking

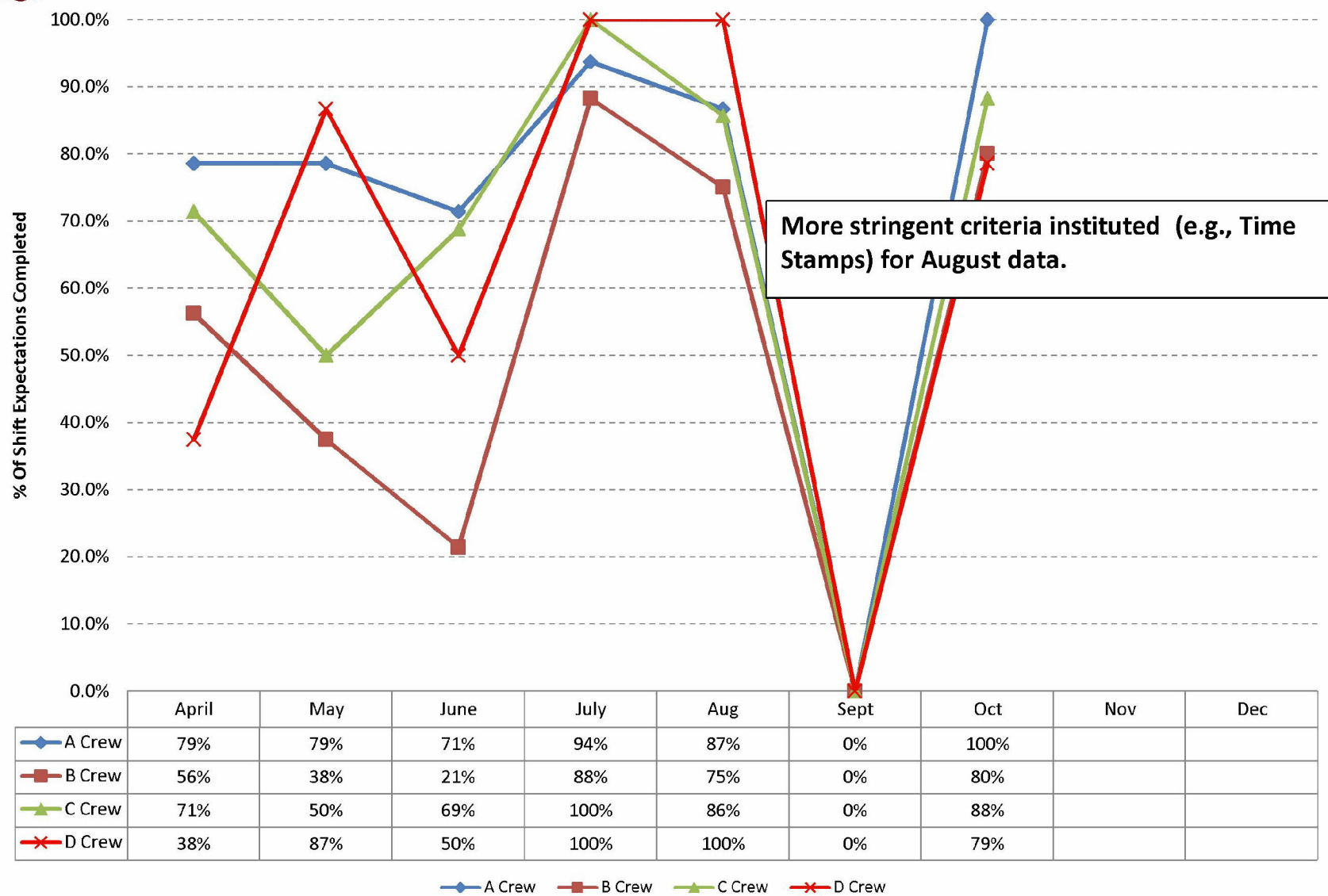
Only LPOs referring to JJSVs were counted.



**Data shows how often JJSVs are discussed
during the Start of Shift Meetings**



Crew Management: Utilities





Procedures Used: Utilities

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

of Procedures Used

20
18
16
14
12
10
8
6
4
2
0

	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	0	0	0	0	0	0	1		
B Crew	0	0	0	0	0	0	1		
C Crew	0	0	0	0	0	0	1		
D Crew	0	0	0	0	0	0	1		

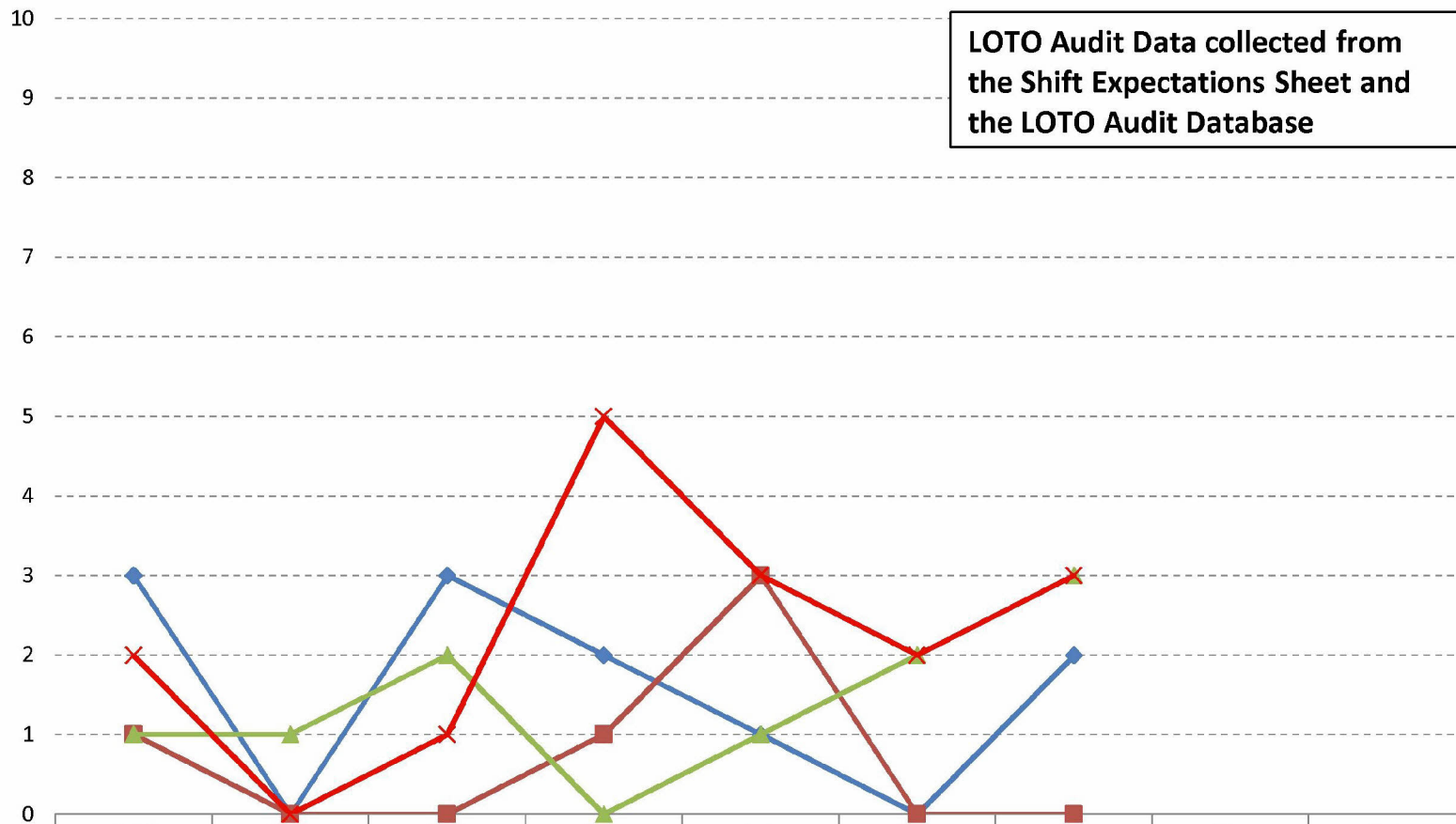
—◆— A Crew —■— B Crew —▲— C Crew —✕— D Crew



LOTO Audits: Utilities

LOTO Audit Data collected from
the Shift Expectations Sheet and
the LOTO Audit Database

Of LOTO Audits Completed



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	3	0	3	2	1	0	2		
B Crew	1	0	0	1	3	0	0		
C Crew	1	1	2	0	1	2	3		
D Crew	2	0	1	5	3	2	3		

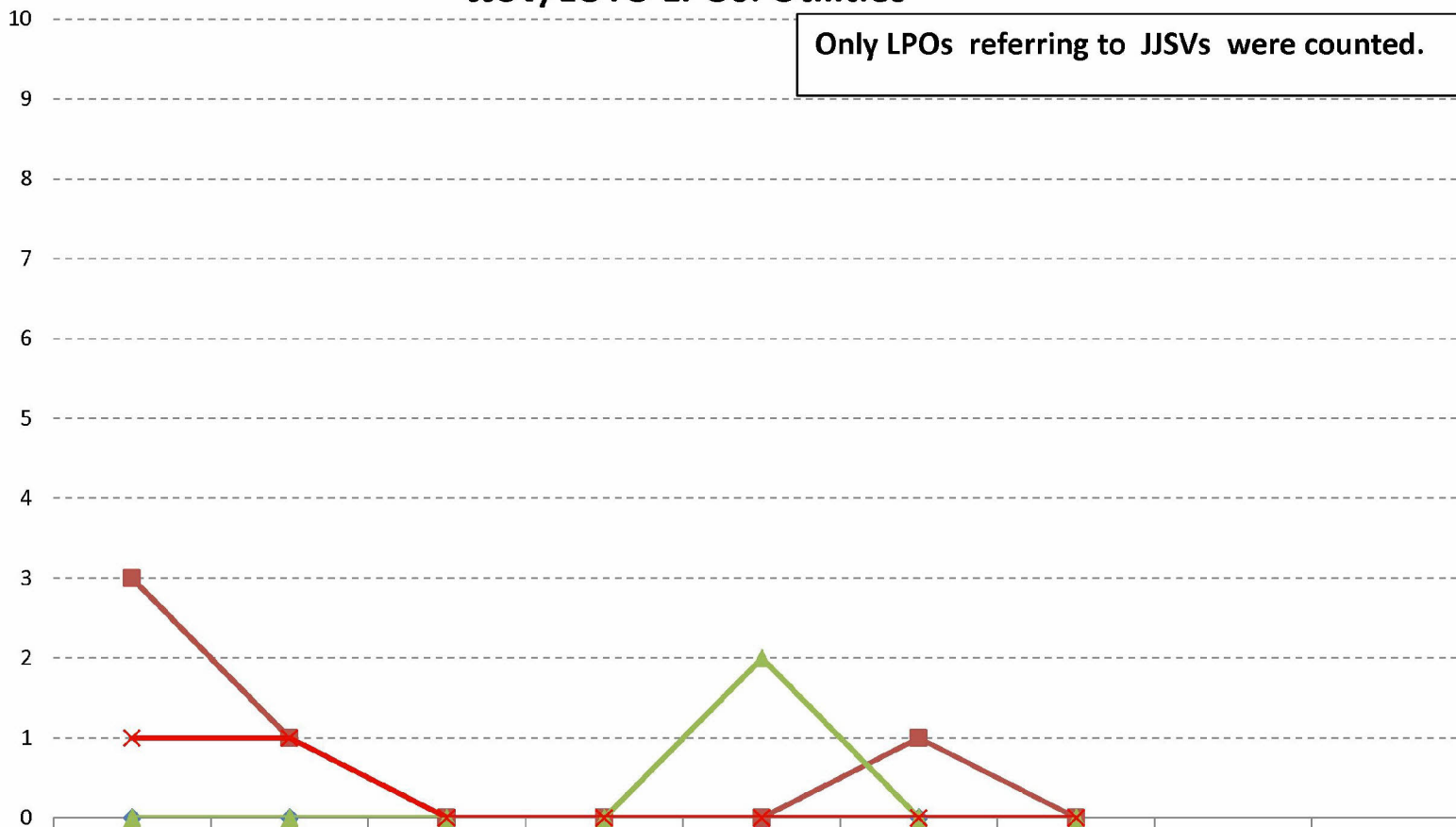
—◆— A Crew —■— B Crew —▲— C Crew —×— D Crew



JJSV/LOTO LPOs: Utilities

Only LPOs referring to JJSVs were counted.

of JJSV LPOs Completed



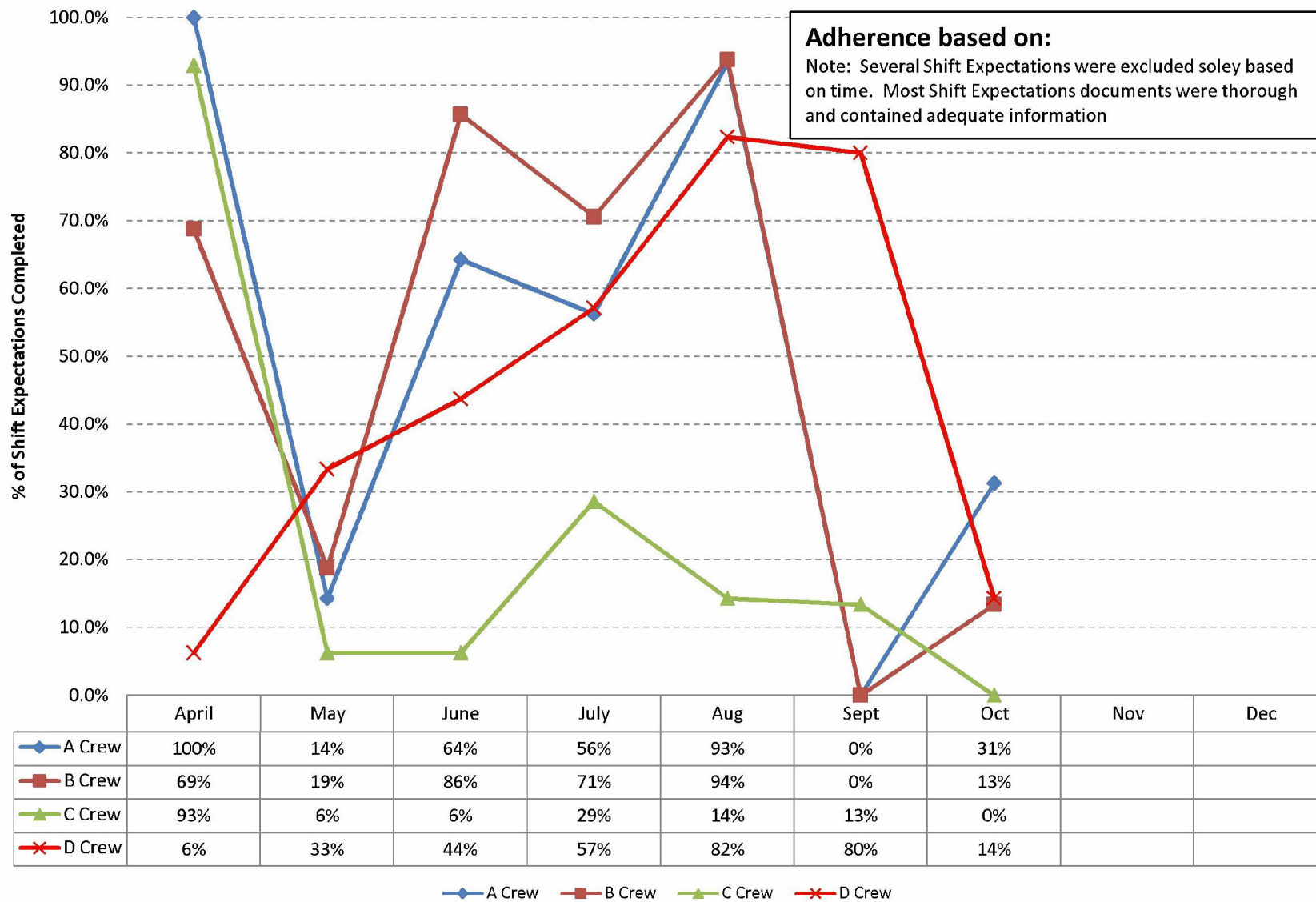
A Crew	0	0	0	0	0	0	0		
B Crew	3	1	0	0	0	1	0		
C Crew	0	0	0	0	2	0	0		
D Crew	1	1	0	0	0	0	0		

A Crew B Crew C Crew D Crew

**Data shows how often JJSVs are discussed
during the Start of Shift Meetings**



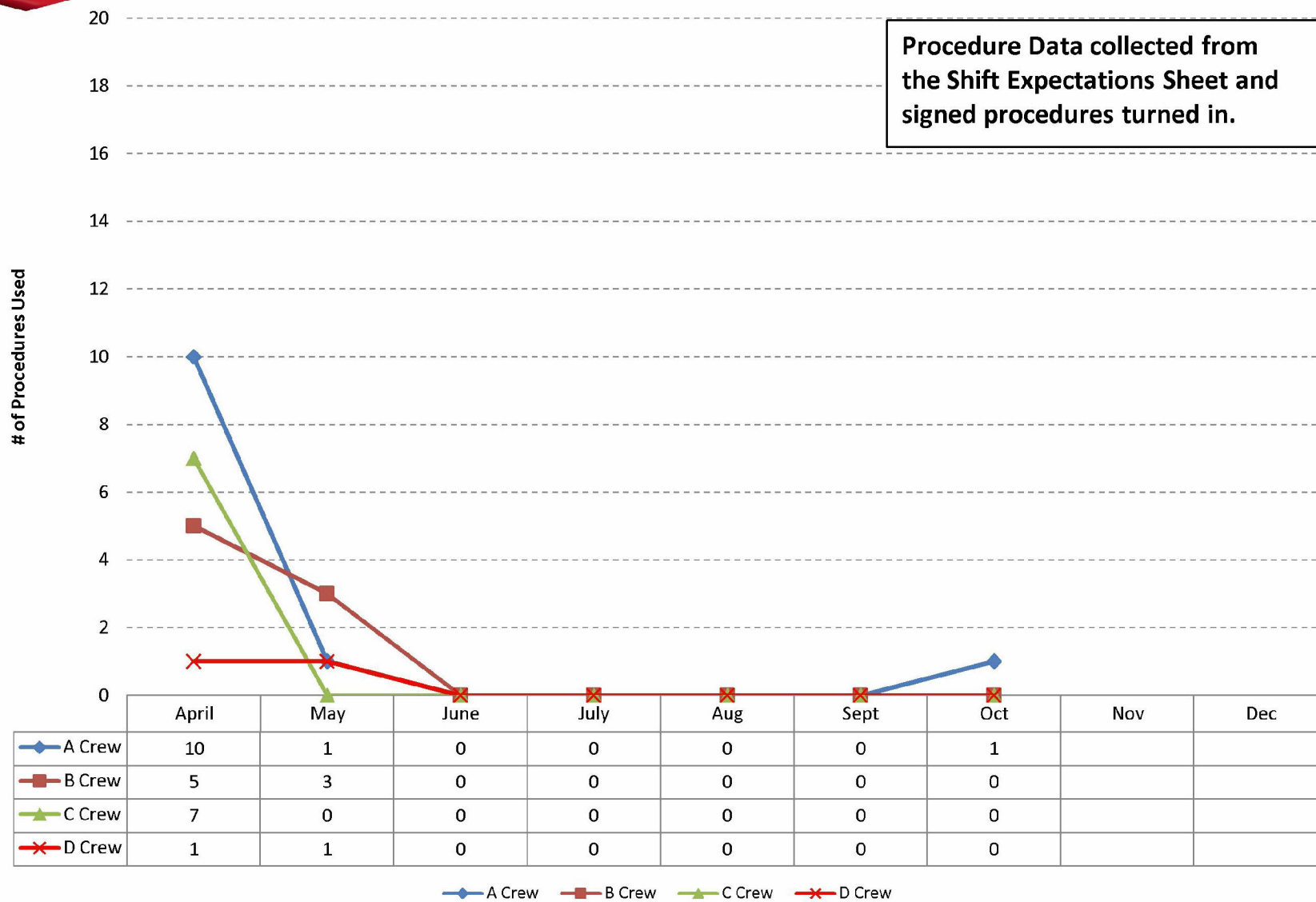
Crew Management: Blending/Shipping





Procedures Used: Blending/Shipping

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

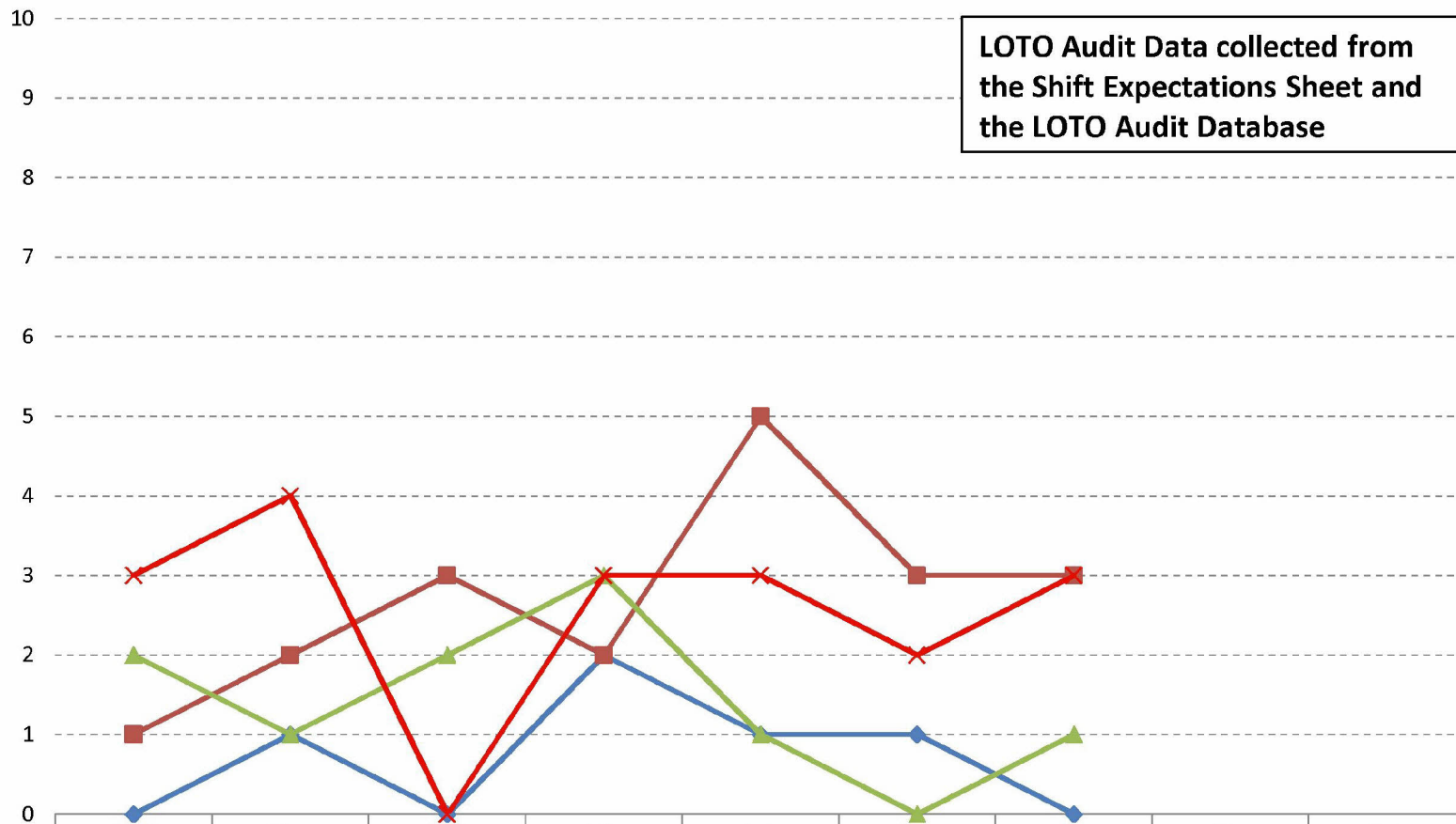




LOTO Audits: Blending/Shipping

LOTO Audit Data collected from
the Shift Expectations Sheet and
the LOTO Audit Database

of LOTO Audits Completed



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	0	1	0	2	1	1	0		
B Crew	1	2	3	2	5	3	3		
C Crew	2	1	2	3	1	0	1		
D Crew	3	4	0	3	3	2	3		

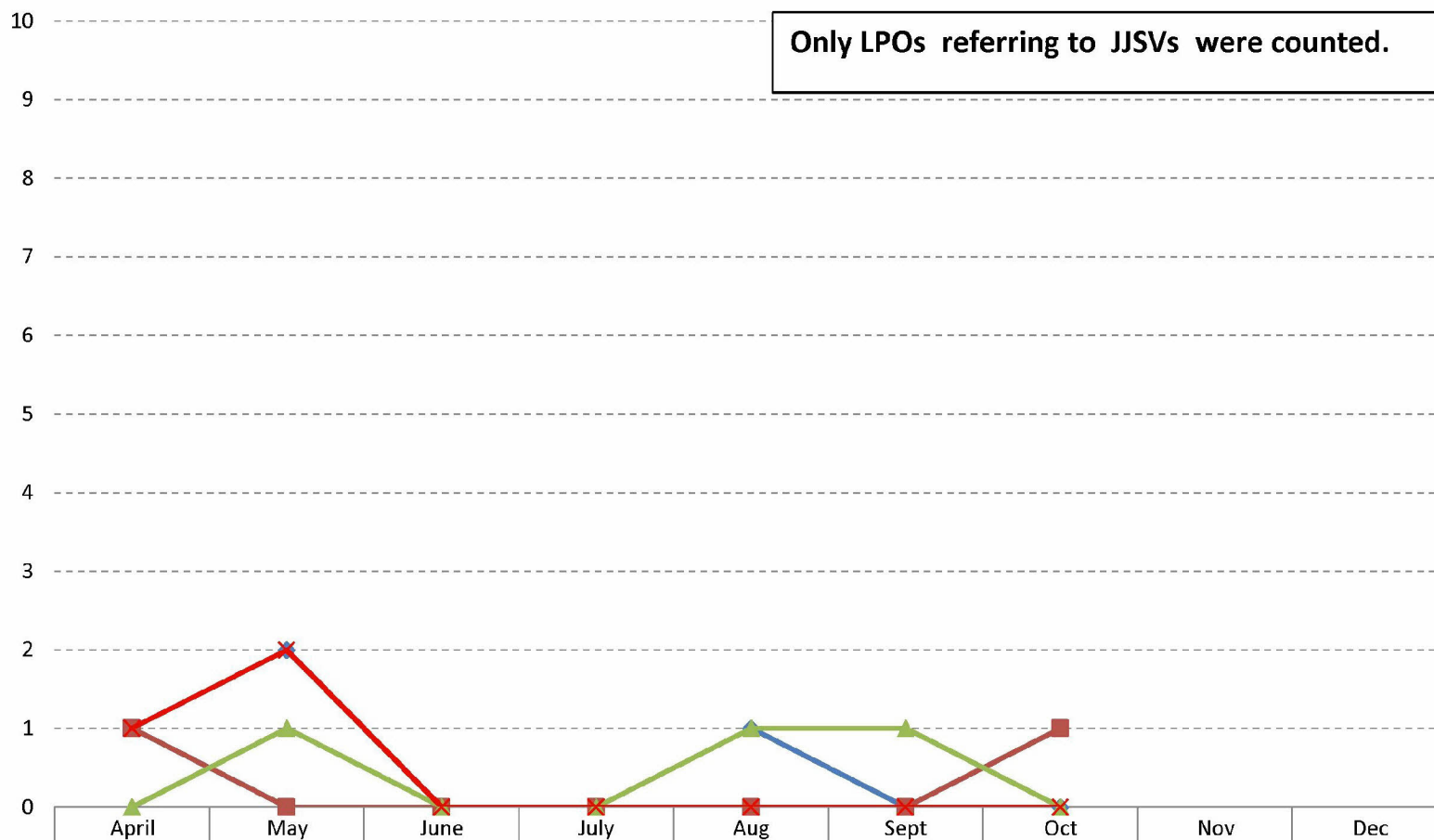
—◆— A Crew —■— B Crew —▲— C Crew —×— D Crew



JJSV/LOTO LPOs: Blending/Shipping

Only LPOs referring to JJSVs were counted.

Of JJSV LPOs Completed



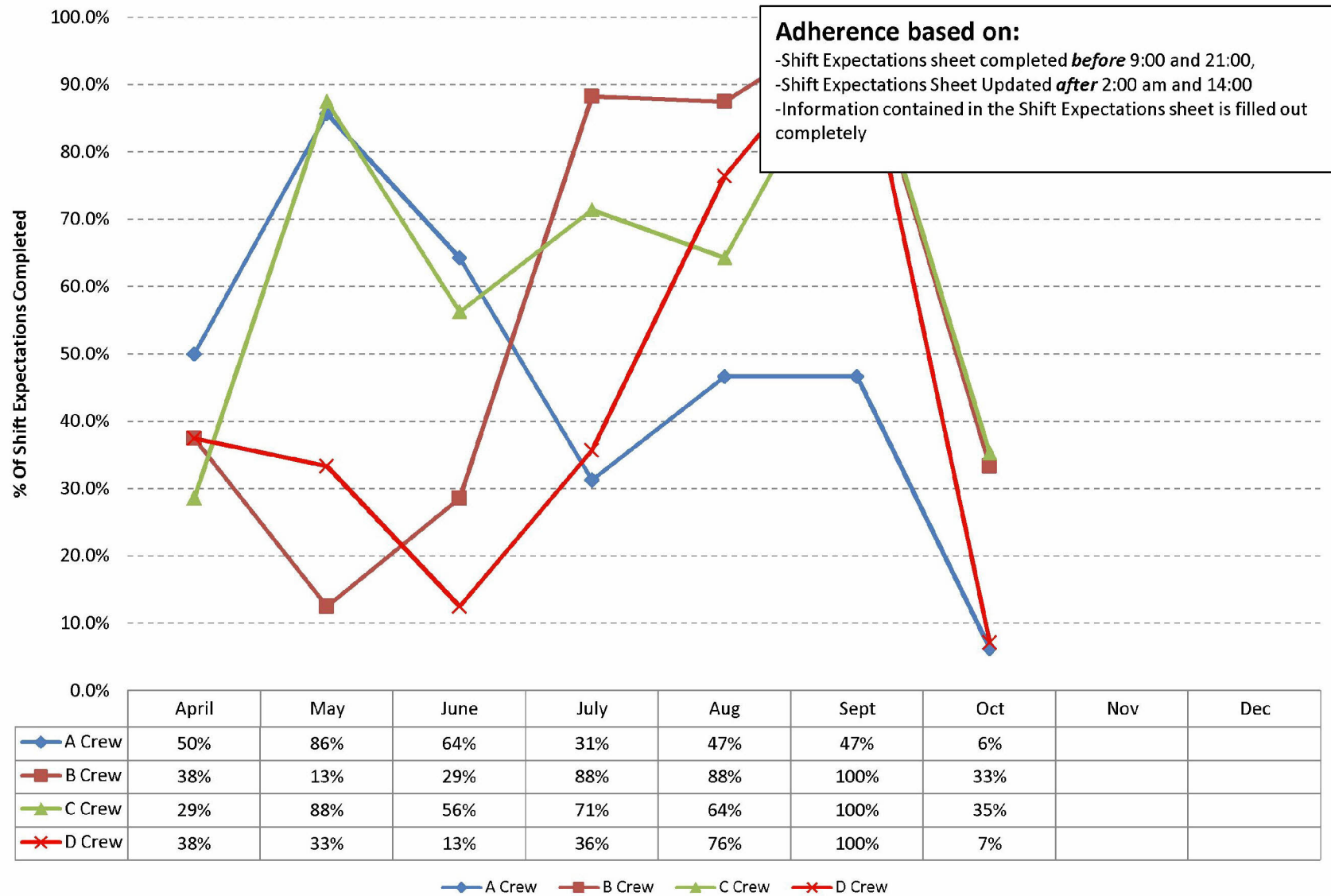
A Crew	1	2	0	0	1	0	0	Nov	Dec
B Crew	1	0	0	0	0	0	1		
C Crew	0	1	0	0	1	1	0		
D Crew	1	2	0	0	0	0	0		

A Crew B Crew C Crew D Crew

**Data shows how often JJSVs are discussed
during the Start of Shift Meetings**



Crew Management: D&R

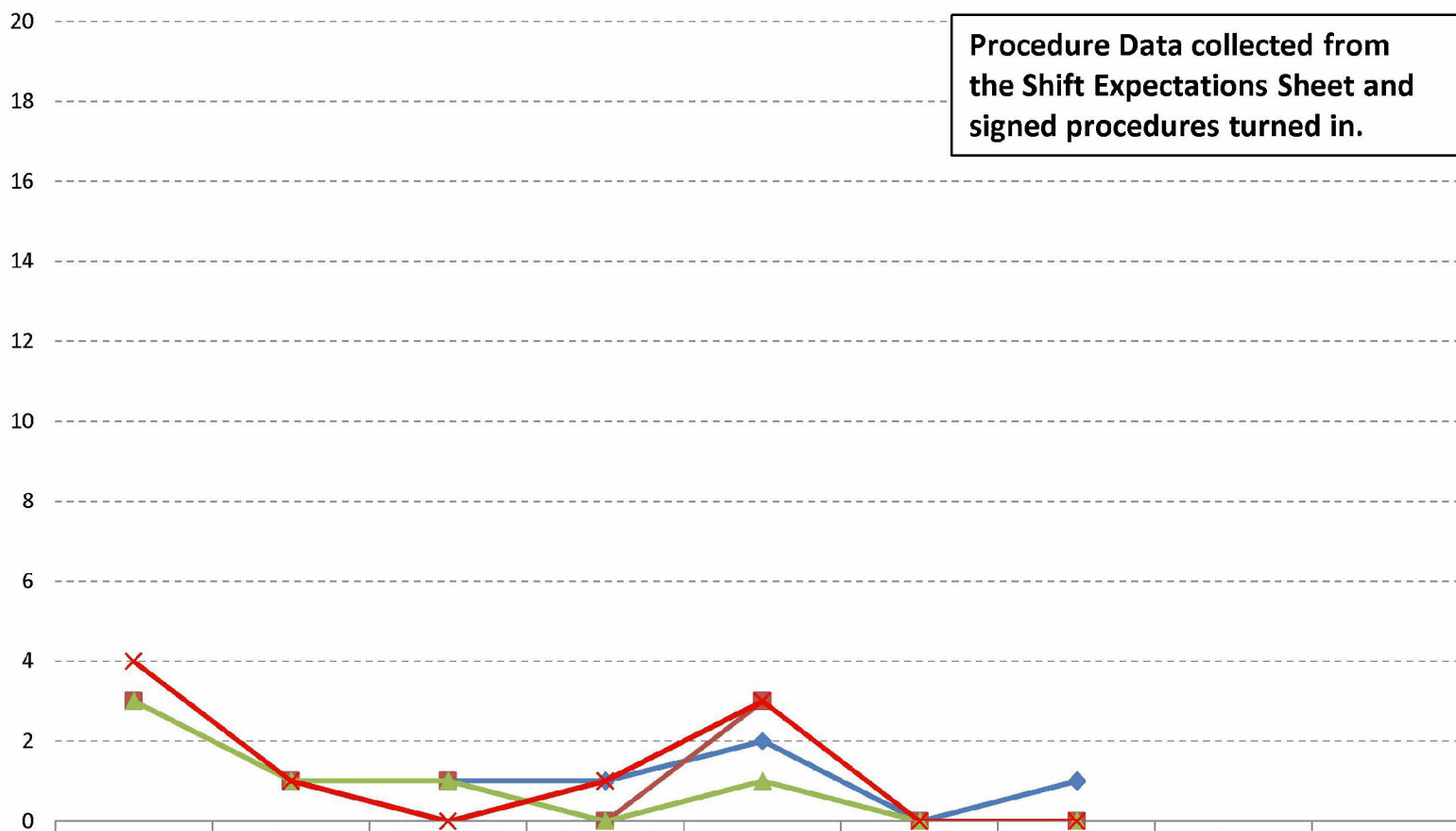




Procedures Used: D&R

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

Of Procedures Used



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	3	1	1	1	2	0	1		
B Crew	3	1	1	0	3	0	0		
C Crew	3	1	1	0	1	0	0		
D Crew	4	1	0	1	3	0	0		

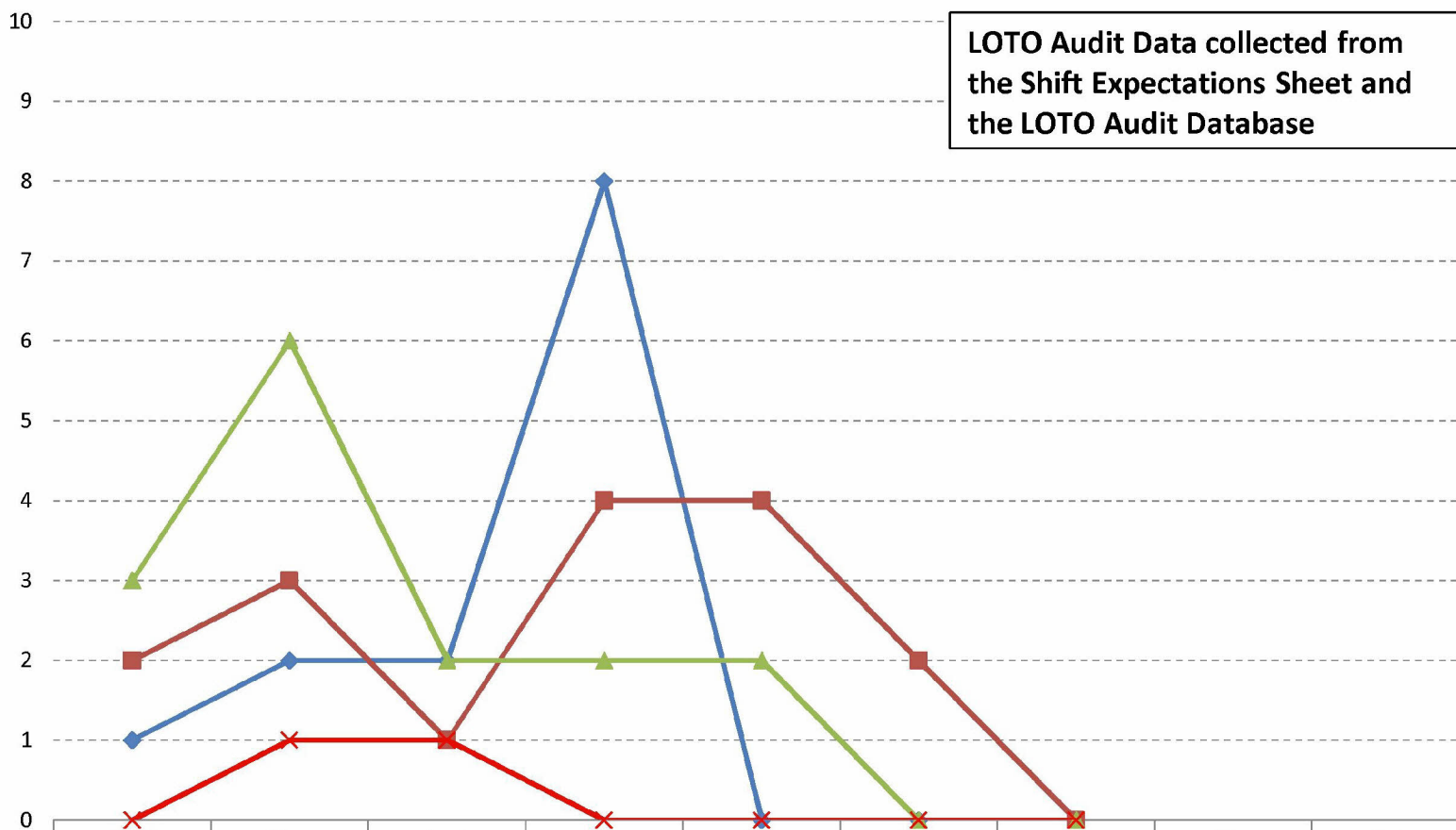
A Crew B Crew C Crew D Crew



LOTO Audits:D&R

LOTO Audit Data collected from
the Shift Expectations Sheet and
the LOTO Audit Database

Of LOTO Audits Completed



◆ A Crew
■ B Crew
▲ C Crew
× D Crew

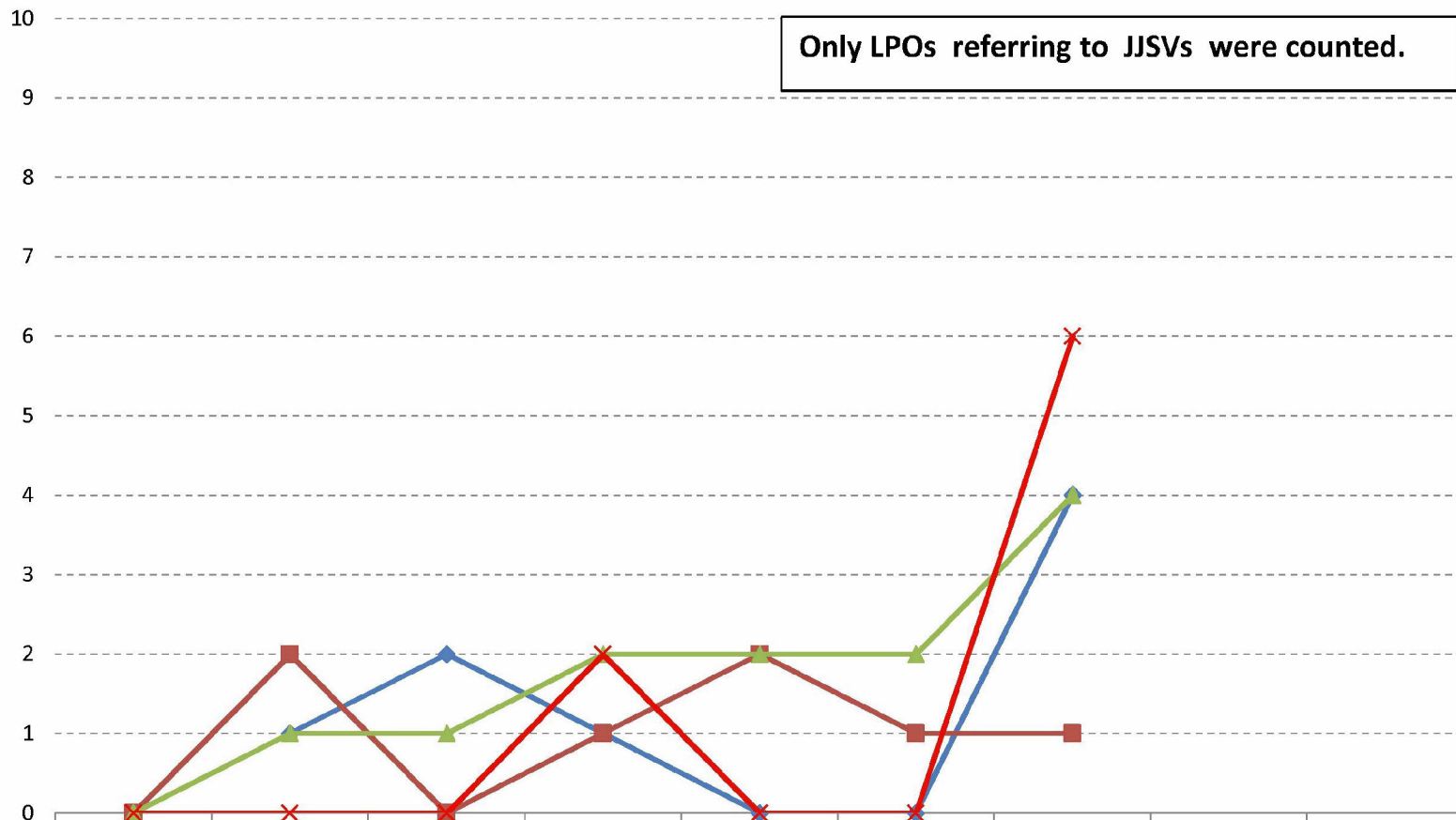
◆ A Crew ■ B Crew ▲ C Crew × D Crew



JJSV/LOTO LPOs: D&R

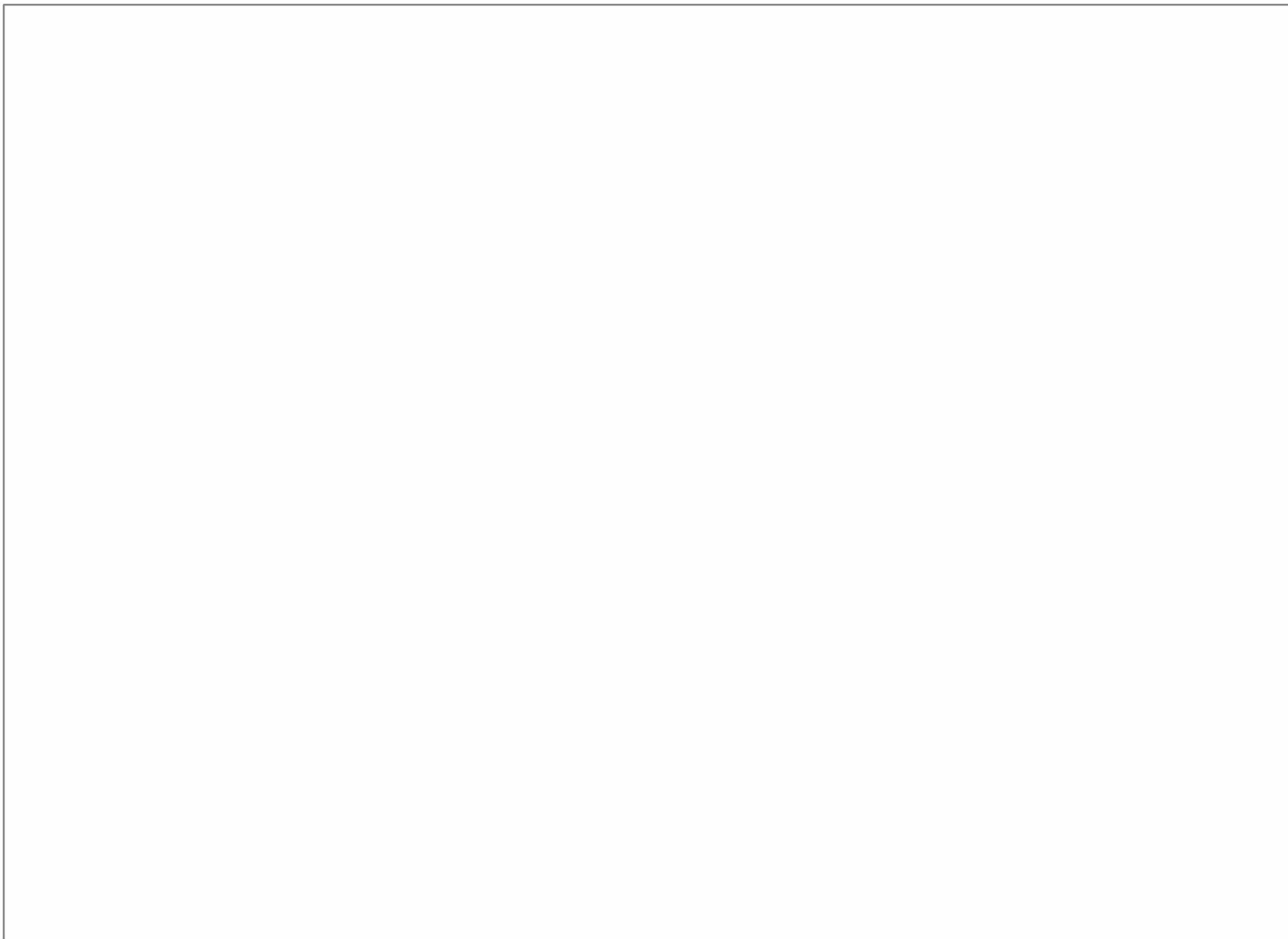
Only LPOs referring to JJSVs were counted.

Of JJSV LPOs Completed



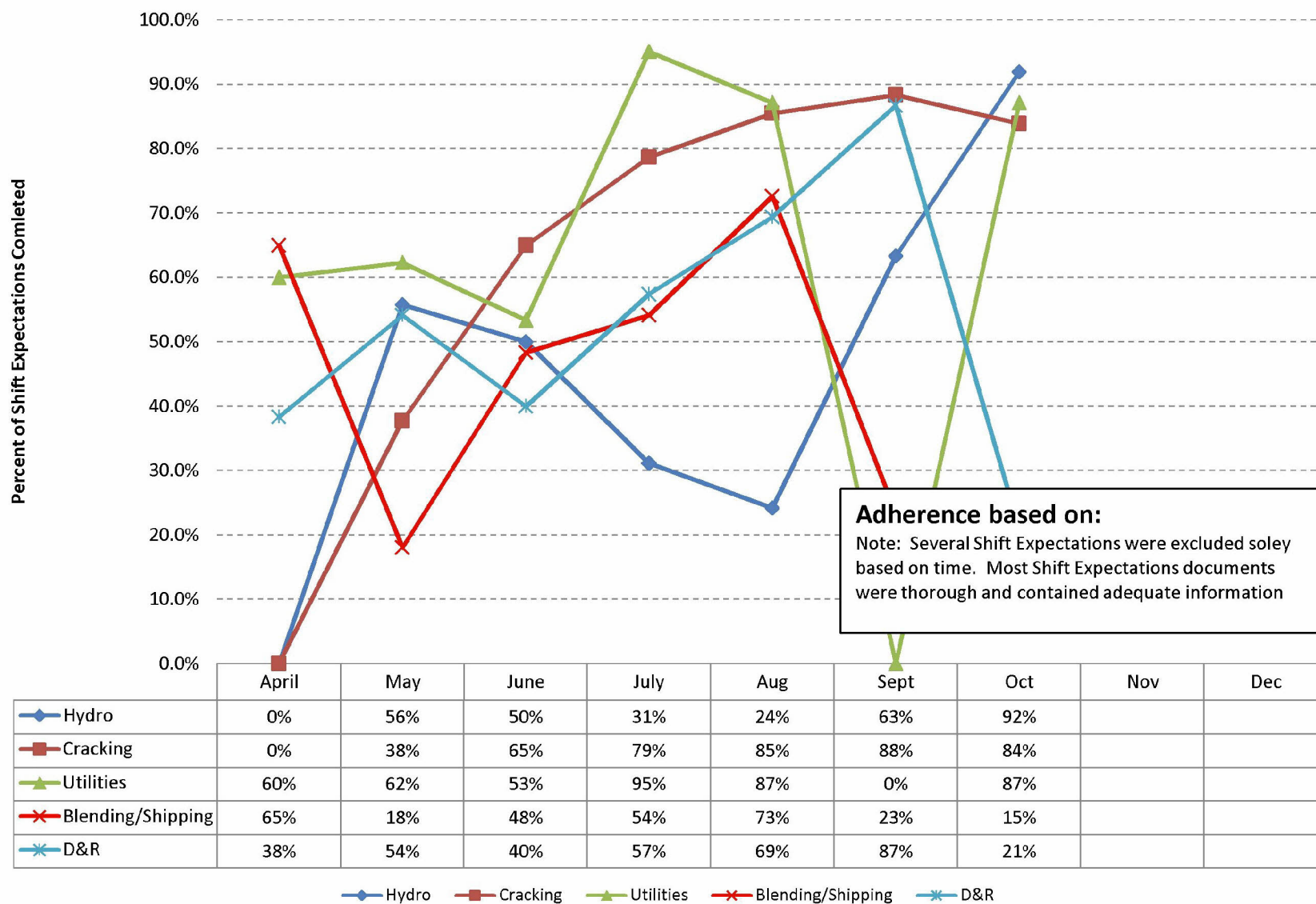
	April	May	June	July	Aug	Sept	Oct	Nov	Dec
—◆— A Crew	0	1	2	1	0	0	4		
—■— B Crew	0	2	0	1	2	1	1		
—▲— C Crew	0	1	1	2	2	2	4		
—×— D Crew	0	0	0	2	0	0	6		

—◆— A Crew —■— B Crew —▲— C Crew —×— D Crew



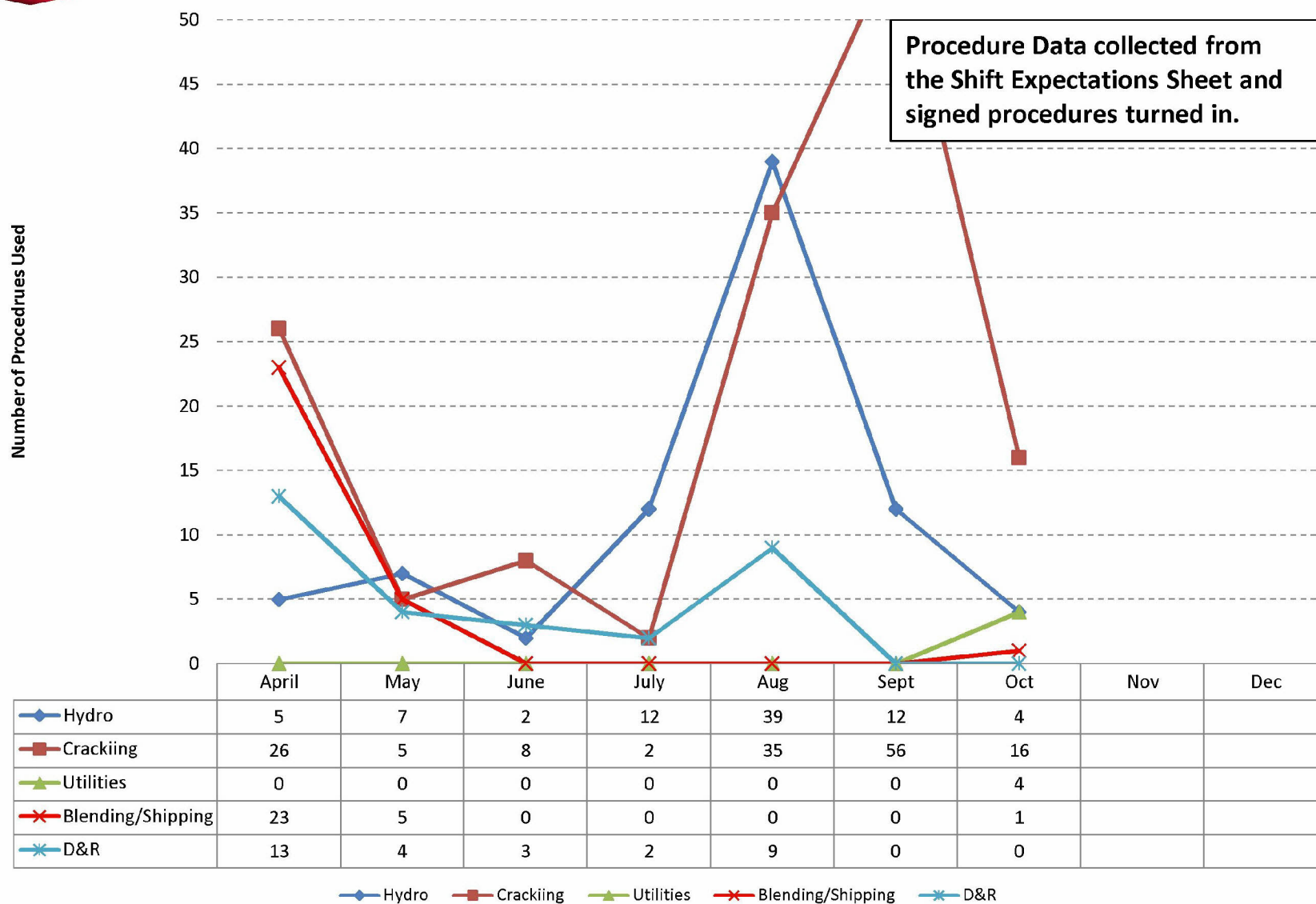


Crew Management: Refinery-Wide





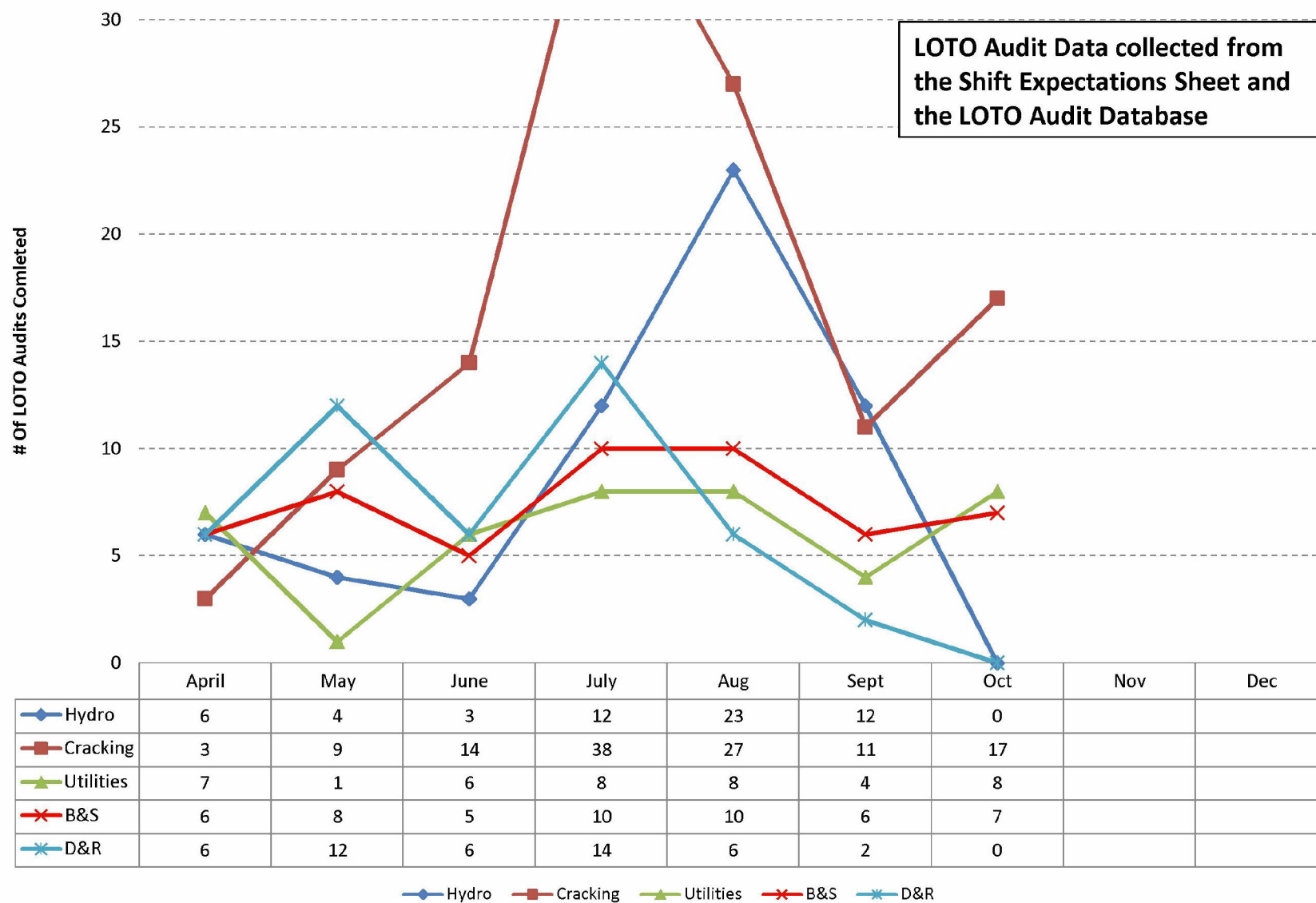
Procedure Usage: ABU Comparison





LOTO Audits: Refinery Wide

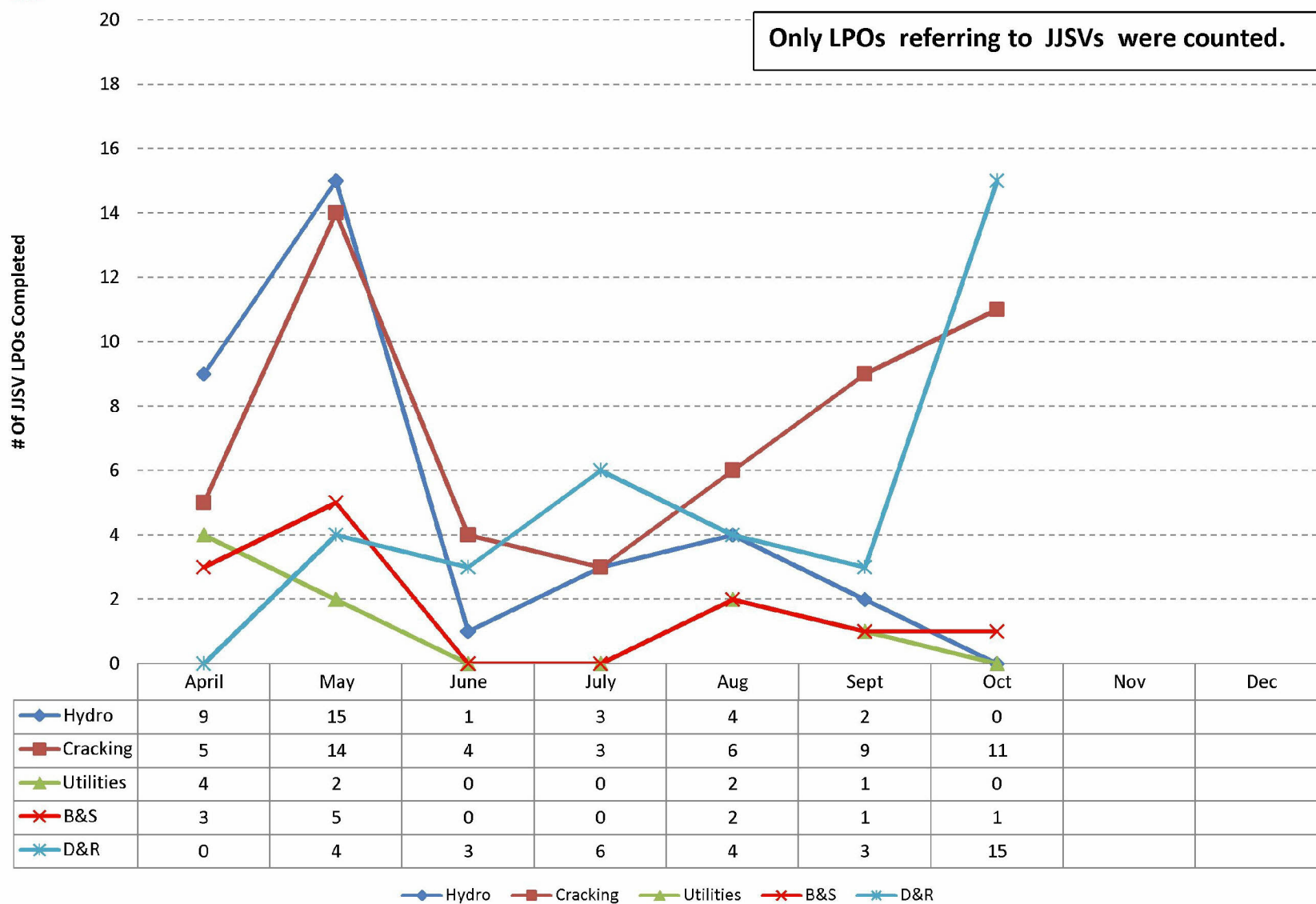
LOTO Audit Data collected from
the Shift Expectations Sheet and
the LOTO Audit Database





JJSV/LOTO LPOs: Refinery Wide

Only LPOs referring to JJSVs were counted.

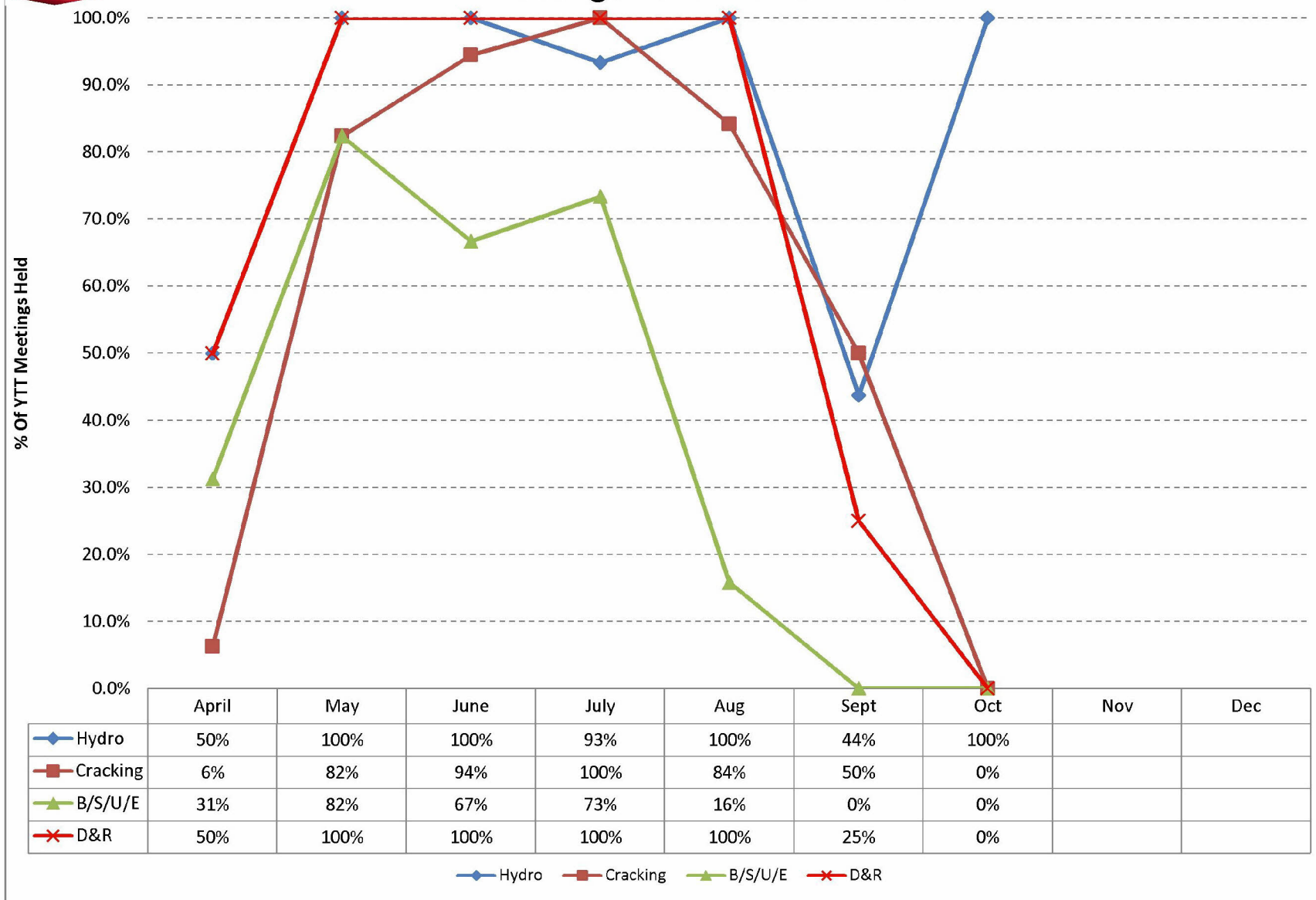




**Data shows how often JJSVs are discussed
during the Start of Shift Meetings**



YTT Meetings: Zone Maintenance





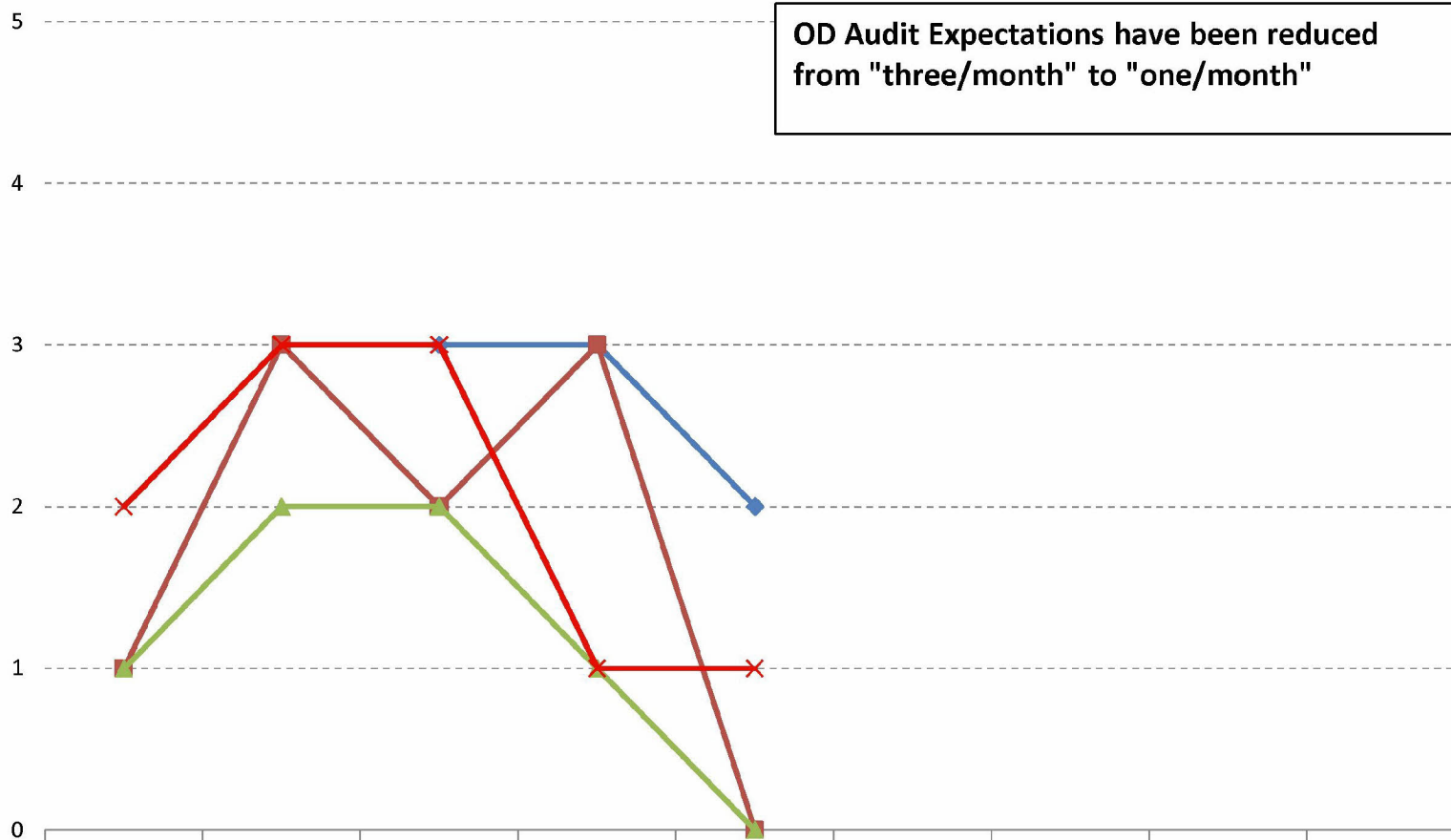
Different criteria instituted in June. Only LPOs referring to JJSVs were counted.



Operational Discipline Audits: Zone Maintenance

OD Audit Expectations have been reduced from "three/month" to "one/month"

% Of Target Audits Completed

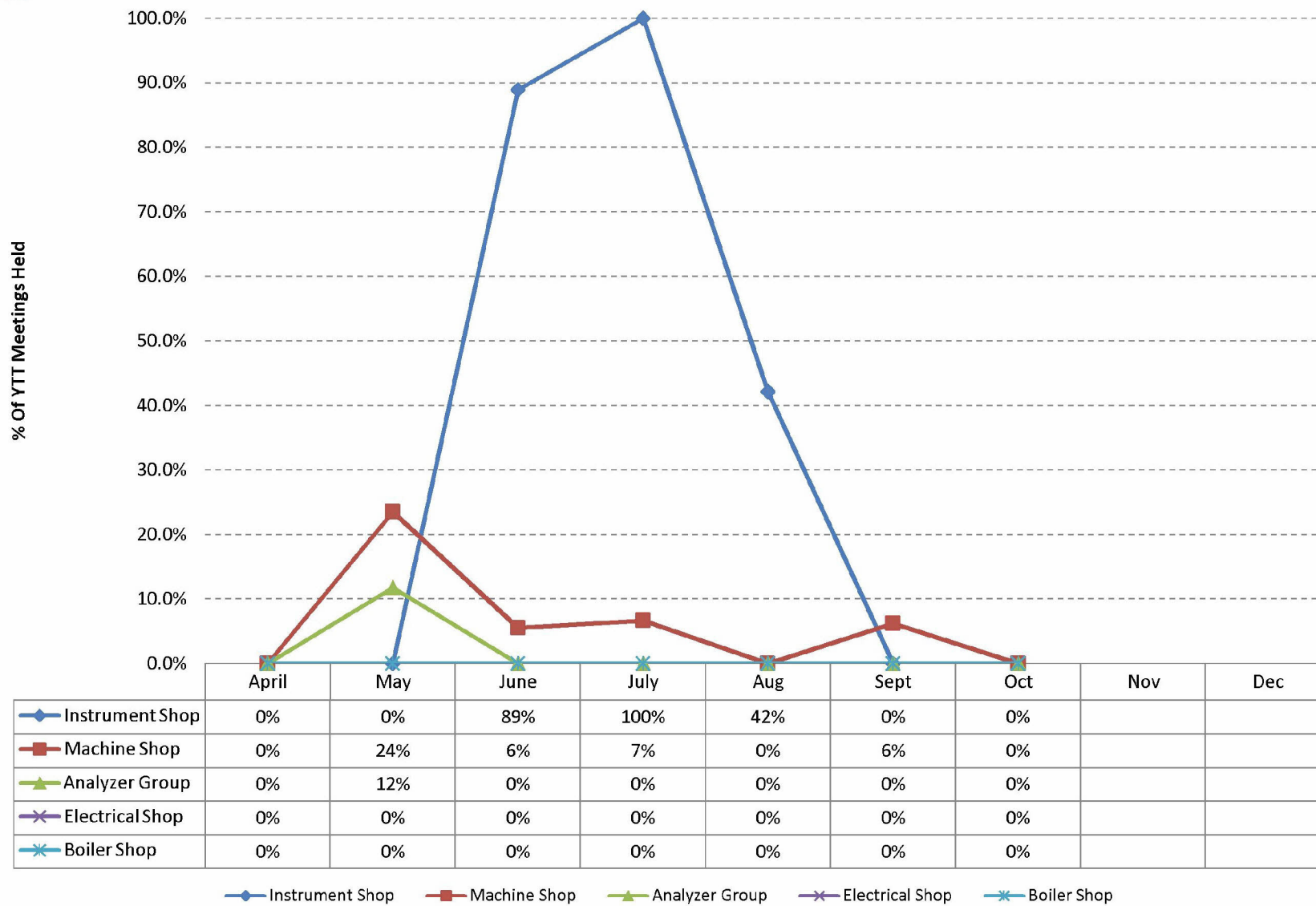


Hydro	1	3	3	3	2				
Cracking	1	3	2	3	0				
B/S/U/E	1	2	2	1	0				
D&R	2	3	3	1	1				

Hydro Cracking B/S/U/E D&R



YTT Meetings: Shops

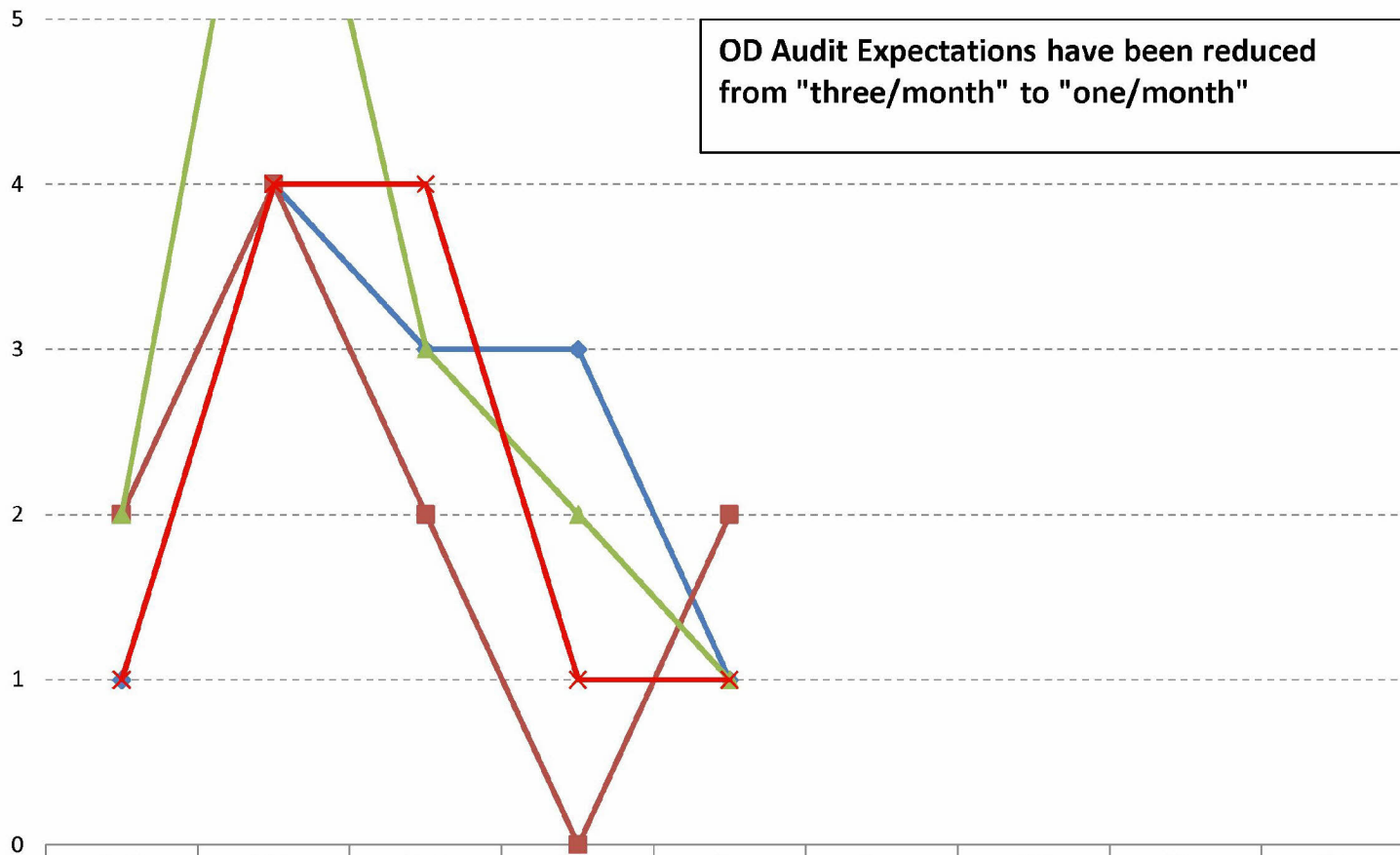




OD Audits: Shops

OD Audit Expectations have been reduced from "three/month" to "one/month"

Of OD Audits Completed

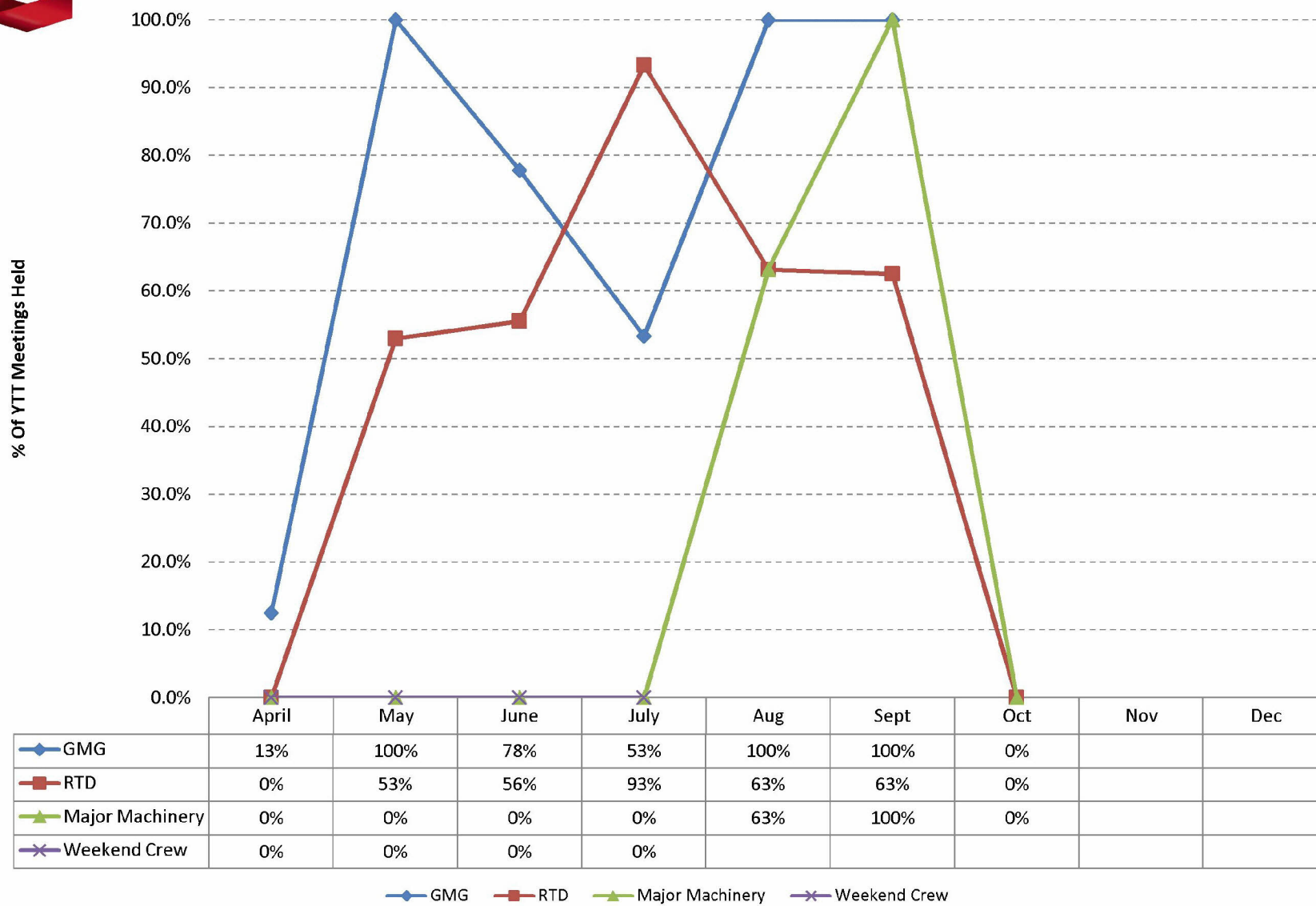


	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Instrument Shop	1	4	3	3	1				
Machine Shops	2	4	2	0	2				
Analyzer Group	2	7	3	2	1				
Electrical Shop	1	4	4	1	1				

Instrument Shop Machine Shops Analyzer Group Electrical Shop



YTT Meetings: Support Groups

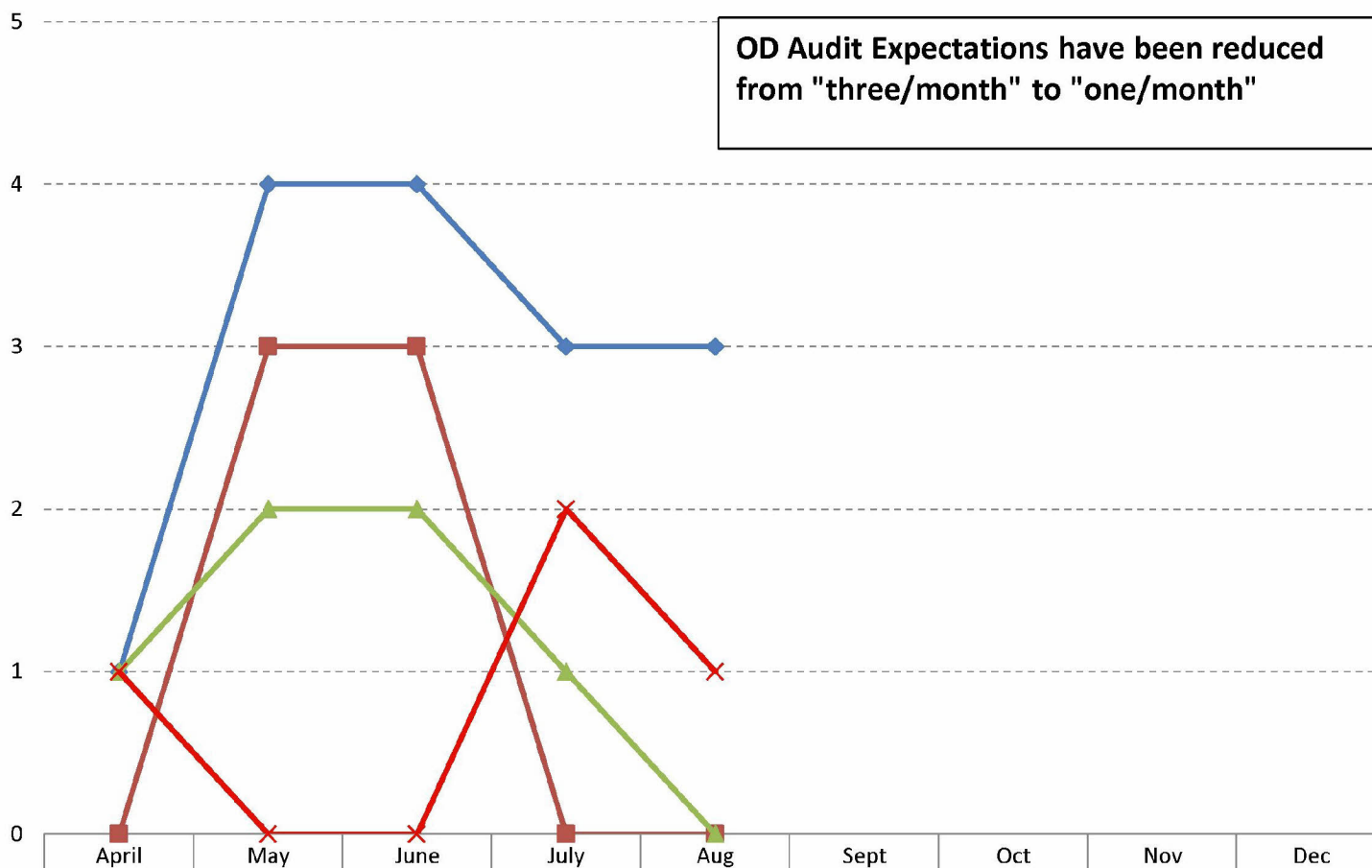




Operational Discipline Audits: Support Groups

OD Audit Expectations have been reduced from "three/month" to "one/month"

of Operational Audits Completed



GMG	1	4	4	3	3				
RTD	0	3	3	0	0				
Major Machinery	1	2	2	1	0				
Weekend Crew	1	0	0	2	1				

GMG RTD Major Machinery Weekend Crew

	Hydro					Cracking					Utilities					Blending/Shipping					D&R					Refinery
	A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total	
Shifts Worked																										
April	14	16	14	16	60	14	16	14	16	60	14	16	14	16	60	14	16	14	16	60	14	16	14	16	60	300
May	14	16	16	15	61	14	16	16	15	61	14	16	16	15	61	14	16	16	15	61	14	16	16	15	61	305
June	14	14	16	16	60	14	14	16	16	60	14	14	16	16	60	14	14	16	16	60	14	14	16	16	60	300
July	16	17	14	14	61	16	17	14	14	61	16	17	14	14	61	16	17	14	14	61	16	17	14	14	61	305
Aug	15	16	14	17	62	15	16	14	17	62	15	16	14	17	62	15	16	14	17	62	15	16	14	17	62	310
Sept	15	15	15	15	60	15	15	15	15	60	15	15	15	15	60	15	15	15	15	60	15	15	15	15	60	300
Oct	16	15	17	14	62	16	15	17	14	62	16	15	17	14	62	16	15	17	14	62	16	15	17	14	62	310
Nov					0					0					0					0					0	0
Dec					0					0					0					0					0	0
Meetings Held																										
April					0					0	11	9	10	6	36	14	11	13	1	39	7	6	4	6	23	98
May	11	10	3	10	34	10	6	5	2	23	11	6	8	13	38	2	3	1	5	11	12	2	14	5	33	139
June	8	11	4	7	30	11	4	15	9	39	10	3	11	8	32	9	12	1	7	29	9	4	9	2	24	154
July	4	13	0	2	19	15	10	11	12	48	15	15	14	14	58	9	12	4	8	33	5	15	10	5	35	193
Aug	2	9	4	0	15	15	16	8	14	53	13	12	12	17	54	14	15	2	14	45	7	14	9	13	43	210
Sept	10	6	10	12	38	15	15	11	12	53	0	0	0	0	0	0	0	2	12	14	7	15	15	15	52	157
Oct	14	15	14	14	57	15	15	15	7	52	16	12	15	11	54	5	2	0	2	9	1	5	6	1	13	185
Nov					0					0					0					0					0	0
Dec					0					0					0					0					0	0
Percentage																										
April	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	79%	56%	71%	38%	60%	100%	69%	93%	6%	65%	50%	38%	29%	38%	38%	33%
May	79%	63%	19%	67%	56%	71%	38%	31%	13%	38%	79%	38%	50%	87%	62%	14%	19%	6%	33%	18%	86%	13%	88%	33%	54%	46%
June	57%	79%	25%	44%	50%	79%	29%	94%	56%	65%	71%	21%	69%	50%	53%	64%	86%	6%	44%	48%	64%	29%	56%	13%	40%	51%
July	25%	76%	0%	14%	31%	94%	59%	79%	86%	79%	94%	88%	100%	100%	95%	56%	71%	29%	57%	54%	31%	88%	71%	36%	57%	63%
Aug	13%	56%	29%	0%	24%	100%	100%	57%	82%	85%	87%	75%	86%	100%	87%	93%	94%	14%	82%	73%	47%	88%	64%	76%	69%	68%
Sept	67%	40%	67%	80%	63%	100%	100%	73%	80%	88%	0%	0%	0%	0%	0%	0%	0%	13%	80%	23%	47%	100%	100%	100%	87%	52%
Oct	88%	100%	82%	100%	92%	94%	100%	88%	50%	84%	100%	80%	88%	79%	87%	31%	13%	0%	14%	15%	6%	33%	35%	7%	21%	60%
Nov																										
Dec																										
Procedures Used																										
April	0	0	3	2	5	5	4	10	7	26	0	0	0	0	0	10	5	7	1	23	3	3	3	4	13	67
May	2	2	2	1	7	2	2	0	1	5	0	0	0	0	0	1	3	0	1	5	1	1	1	1	4	21
June	2	0	0	0	2	2	2	2	2	8	0	0	0	0	0	0	0	0	0	0	1	1	1	0	3	13
July	4	4	2	2	12	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	16
Aug	10	13	15	1	39	14	10	4	7	35	0	0	0	0	0	0	0	0	0	0	2	3	1	3	9	83
Sept	3	3	3	3	12	14	14	14	14	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Oct	1	1	1	1	4	4	4	4	4	16	1	1	1	1	4	1	0	0	0	1	1	0	0	0	0	25
Nov																									0	
Dec																									0	
LOTO Audits																										0
April	1	1	2	2	6	0	0	0	3	3	3	1	1	2	7	0	1	2	3	6	1	2	3	0	6	28
May	1	1	1	1	4	2	6	1	0	9	0	0	1	0	1	1	2	1	4	8	2	3	6	1	12	34
June	1	1	1	0	3	0	1	4	9	14	3	0	2	1	6	0	3	2	0	5	2	1	2	1	6	34
July	3	3	3	3	12	5	20	5	8	38	2	1	0	5	8	2	2	3	3	10	8	4	2	0	14	82
Aug	9	2	9	3	23	3	12	4	8	27	1	3	1	3	8	1	5	1	3	10	0	4	2	0	6	74
Sept	3	3	3	3	12	0	11	0	0	11	0	0	2	2	4	1	3	0	2	6	0	2	0	0	2	35
Oct	0	0	0	0	0	2	12	0	3	17	2	0	3	3	8	0	3	1	3	7	0	0	0	0	0	32
Nov																									0	
Dec																									0	
JJSV LPOs Total																										
April	3	1	2	3	9	2	1	0	2	5	0	3	0	1	4	1	1	0	1	3	0	0	0	0	0	#REF!
May	3	6	1	5	15	6	3	1	4	14	0	1	0	1	2	2	0	1	2	5	1	2	1	0	4	#REF!
June	0	1	0	0	1	3	0	0	1	4	0	0	0	0	0	0	0	0	0	0	2	0	1	0	3	#REF!
July	0	1	0	2	3	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	1	1	2	2	6	#REF!
Aug	1	0	0	3	4	3	0	0	3	6	0	0	2	0	2	1	0	1	0	2	0	2	2	0	4	#REF!
Sept	0	0	0	2	2	1	6	0	2	9	0	1	0	0	1	0	0	1	0	1	0	1	2	0	3	#REF!

	Oct	0	0	0	0	0	3	5	1	2	11	0	0	0	0	0	0	1	0	0	1	4	1	4	6	15	#REF!
	Nov																										#REF!
	Dec																										#REF!
JJSV's Performed																											
	April																										#REF!
	May																										#REF!
	June																										#REF!
	July	3	0	3	3	9	0	0	0	3	3	2	3	3	4	12	2	3	0	2	7	4	2	0	0	6	#REF!
	Aug	7	1	16	1	25	4	10	10	3	27	3	4	12	9	28	3	2	2	0	7	0	2	1	0	3	#REF!
	Sept																										#REF!
	Oct																										#REF!
	Nov																										#REF!
	Dec																										#REF!

Maintenance		Hydro				Cracking				B/S/U/E				D&R										
JJSV LPOs Total		I/E	M	P/B	Total	I/E	M	P/B	Total	I/E	M	P/B	Total	I/E	M	P/B	Total							
	April				0				0	1			1	2	1	2	5							
	May				0				0	1		2	3		1	1	2							
	June				0	2		2	4	2	2	2	6				0		1	2				
	July	0	0	0	0	0	0	0	0	2	1	1	4	0	1	0	1			1				
	Aug	0	0	0	0	0	0	0	0	2	0	1	3	0	0	0	0							
	Sept																							
	Oct																							
	Nov																							
	Dec																							
Shifts Worked																								
	April				16				16				16				16	16	16	16	16	16	16	
	May				17				17				17				17	17	17	17	17	17	17	
	June				18				18				18				18	18	18	18	18	18	18	
	July				15				15				15				15	15	15	15	15	15	15	
	Aug				19				19				19				19	19	19	19	19	19	19	
	Sept				16				16				16				16	16	16	16	16	16	16	
	Oct				16				16				16				16	16	16	16	16	16	16	
	Nov																							
	Dec																							
OD Audits																								
	April				1				1				1				2	1	2	2	1	1	1	0
	May				3				3				2				3	4	4	7	4	0	4	3
	June				3				2				2				3	3	2	3	4	0	4	3
	July				3				3				1				1	3	0	2	1	2	3	0
	Aug				2				0				0				1	1	2	1	1	1	3	0
	Sept																							
	Oct																							
	Nov																							
	Dec																							
Meetings Held																								
	April				8				1				5				8				0	2		
	May				17				14				14				17		4	2	0	17	9	
	June				18				17				12				18	16	1			14	10	
	July				14				15				11				15	15	1		0	8	14	
	Aug				19				16				3				19	8	0			19	12	
	Sept				7				8				0				4	0	1	0	0	0	10	
	Oct				16				0				0				0	0	0	0	0	0	0	
	Nov				0				0				0				0	0	0	0	0	16	16	
	Dec				0				0				0				0							
Percentage																								
	April	#DIV/0!	#DIV/0!	#DIV/0!	50%	#DIV/0!	#DIV/0!	#DIV/0!	6%	#DIV/0!	#DIV/0!	#DIV/0!	31%	#DIV/0!	#DIV/0!	#DIV/0!	50%	0%	0%	0%	0%	#DIV/0!	13%	0%
	May				100%				82%				82%				100%	0%	24%	12%	0%	#DIV/0!	100%	53%
	June				100%				94%				67%				100%	89%	6%	0%	0%	#DIV/0!	78%	56%
	July				93%				100%				73%				100%	100%	7%	0%	0%	#DIV/0!	53%	93%
	Aug				100%				84%				16%				100%	42%	0%	0%	0%	#DIV/0!	100%	63%
	Sept				44%				50%				0%				25%	0%	6%	0%	0%	#DIV/0!	100%	63%
	Oct				100%				0%				0%				0%	0%	0%	0%	0%	#DIV/0!	0%	0%
	Nov																							
	Dec																							

16				
17				
18				
15				
19				
16				
16				
1	1	1	1	
2	2	4		45
2	1	2		
1				
0				
0				
12				
16				
0				
17				
0%				
0%				
0%				
0%				
63%				
100%				
0%				